WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN

EROSION AND SEDIMENT CONTROL NARRATIVE

1. PROJECT DESCRIPTION: THE PROJECT IS LOCATED NEAR MOOREFIELD, WV OFF OF STATE ROUTE 220, IN HARDY COUNTY. THE PURPOSE OF THIS PROJECT IS TO INSTALL EROSION AND SEDIMENT CONTROL MEASURES, IN PREPARATION FOR THE CONSTRUCTION OF SIX POULTRY HOUSE PADS FOR A TOTAL OF 3 - 704' X 63' POULTRY HOUSES, 10 - 624' X 63' POULTRY HOUSES, 2 - 504' X 63' POULTRY HOUSES, 6 ACCESS ROADS, 10 - SEDIMENT BASINS/TRAPS AND INCIDENTAL WORK. THE TOTAL APPROXIMATE LAND DISTURBANCE (LOD) ASSOCIATED WITH THIS PROJECT IS 73.38 ACRES. SEDIMENT BASINS/TRAPS SHALL TRAP WATER FROM 54.92 ACRES AND SUPER SILT FENCE/18" SILT SOXX WILL BE INSTALLED IN ACCORDANCE WITH THE WV DEP EROSION AND SEDIMENT CONTROL BMP MANUAL FOR THE REMAINING 18.46 ACRES.

THERE WILL BE A SIGNIFICANT DECREASE IN 1 YR PEAK DISCHARGE RESULTING FROM THIS PROJECT. ALL SEDIMENT BASINS AND TRAPS SHALL REMAIN TO ACT AS STORM WATER MANAGEMENT STRUCTURES.

2. EXISTING SITE CONDITIONS: THE EXISTING PROPERTY IS CATTLE PASTURE, CROP FIELDS AND UPLAND HARDWOODS WITH FLAT TO MILDLY STEEP TOPOGRAPHY WITH 0% TO 25% SLOPES. THERE ARE NO EROSION FEATURES ON THE SITE. THERE ARE POTENTIAL UPLAND WETLANDS THAT HAVE BEEN AVOIDED IN THE DESIGN.

3. ADJACENT PROPERTY: THE SITE IS BORDERED ON ALL SIDES BY PASTURE FIELDS OR UPLAND HARDWOODS.

4. SOILS: NO GEO TECHNICAL BORINGS WERE DONE FOR THE PROJECT SITE. THE USDA SOIL SURVEY INDICATES MOSTLY MONONGAHELA SILT LOAMS AND TYGART SILT LOAMS OF 0-15% SLOPES WITH VARYING DEPTH OVER BEDROCK.

5. OFF SITE AREAS: NONE

6. CRITICAL EROSION AREAS-CONTROL MAINTENANCE: THERE ARE NO CRITICAL EROSION ARES ON THE SITE OR ADJACENT AREAS. ALL 3:1 SLOPES AND STEEPER, DITCHES AND OTHER CONTROLS SHALL BE CONSIDERED CRITICAL EROSION AREAS. THESE AREAS SHALL BE MONITORED & MAINTAINED DAILY AND AFTER EACH RAIN FALL OF 0.25 INCHES OR GREATER. THE LOCAL GOVERNING AUTHORITY WILL HAVE THE AUTHORITY TO RECOMMEND THE PLACEMENT OF ADDITIONAL EROSION CONTROL MEASURES IN THESE AREAS IF IT BECOMES EVIDENT DURING CONSTRUCTION THAT THE ONES IN PLACE ARE NOT FUNCTIONING SUFFICIENTLY.

7. EROSION AND SEDIMENT CONTROL MEASURES: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE CURRENT WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL. THE CONTRACTOR SHALL OBTAIN A COPY OF THIS MANUAL FROM THE WVDEP WEBSITE AND CONSTRUCT ALL DEVICES BASED ON THIS MANUAL OR A HANDBOOK THAT IS COMPARABLE OR EXCEEDS THE SPECIFICATIONS OF THE WEST VIRGINIA MANUAL. THE MINIMUM STANDARDS OF THIS MANUAL SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE. SEE PLANS FOR ALL PROPOSED EROSION AND SEDIMENT CONTROL MEASURES.

8. STRUCTURAL PRACTICES:

-CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS.
-CONSTRUCT SEDIMENT BASINS AND DIVERSION DITCHES AS SHOWN ON THE PLANS.
-OUTLET PROTECTION. WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.
-SUPER SILT FENCE AND 18" SILT SOCKS WILL BE CONSTRUCTED AS SHOWN ON THE PLANS.

9. VEGETATIVE PRACTICE TOPSOILING: TOPSOIL WILL BE STRIPPED FROM THE SITE AND STOCKPILED IN AN AREA DETERMINED IN THE FIELD. TOPSOIL WILL BE PLACED ON ALL DISTURBED AREAS AT A MINIMUM DEPTH OF 2 INCHES. TEMPORARY SEEDING: ALL DENUDED AREAS LEFT DORMANT FOR MORE THAN 14 DAYS SHALL BE SEEDED WITH A FAST GERMINATING SEED. THE TIME OF YEAR WILL BE THE BASIS FOR THE SEED MIXTURE. PERMANENT SEEDING: ALL SEEDED AREAS WILL BE RESEEDED, MULCHED AND FERTILIZED AS NEEDED TO OBTAIN AN ADEQUATE STAND OF GRASS. PERMANENT SEEDING SHALL BE PLACED WITHIN SEVEN DAYS UPON ACHIEVING FINAL GRADE. WATER, MULCH, AND RESEED AS NECESSARY TO OBTAIN AN ADEQUATE STAND OF VEGETATION, IN THE OPINION OF THE ENGINEER.

10. MANAGEMENT STRATEGIES: CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS WILL BEGIN AND END AS SOON AS POSSIBLE. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES. AFTER ACHIEVING ADEQUATE STABILIZATION THE TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND ANY AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED.

11. SEQUENCE OF CONSTRUCTION:

A. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD ON SITE WITH CONTRACTOR TO REVIEW THE CONSTRUCTION DRAWINGS AND PROVIDE ANY REQUESTED GUIDANCE. DURING PRE-CON ALL CONTRACTOR PERSONNEL SHALL BE TRAINED ON THE SWPPP, GWPPP, SAFETY AND REPORTING AND RECORD KEEPING REQUIREMENTS. TRAINING SHALL BE CONDUCTED MONTHLY ON CONSTRUCTION ACTIVITIES THAT NEED ADDITIONAL ATTENTION IN OR TO PREVENT SPILLS OR UNAUTHORIZED DISCHARGES

B. CONSTRUCT THE CONSTRUCTION ENTRANCE AND ALL SEDIMENT CONTROL DEVICES THAT DO NOT REQUIRE CLEARING AND GRUBBING.

C. CONSTRUCT ALL PROPOSED SEDIMENT CONTROL DEVICES AS SOON AS CLEARING AND GRUBBING OPERATIONS ALLOW. SEDIMENT TRAPPING DEVICES SHALL BE INSTALLED AND INSPECTED BY A QUALIFIED PERSON PRIOR TO THE START OF GRADING OPERATIONS.

D. CLEAR AND GRUB, REMOVE TOPSOIL AND PLACE AT AN AREA DETERMINED IN THE FIELD WHERE EROSION WILL NOT TAKE PLACE. TOPSOIL STOCKPILE TO BE SEEDED AND MULCHED. SILT FENCE SHALL BE CONSTRUCTED AROUND TOPSOIL STOCKPILES.

E. GRADING OPERATIONS AS REQUIRED. CUT SLOPES AND FILL SLOPES SHALL BE TOPSOILED IF NEEDED. DITCH LINES SHALL BE CLEANED. ALL DITCHES WILL HAVE AT LEAST GRASS LINING PROTECTION OR GREATER BASED ON DITCH SLOPE WITH THE FOLLOWING DETERMINATION; 0 TO 3% - GRASS LINED, 3 % OR GREATER REQUIRES TURF REINFORCEMENT MATTING. ROCK CHECK DAMS SHALL BE INSTALLED AS SHOWN ON THE ROAD PROFILE.

F. DITCH CHECK DAMS WITH SUMPS AND CULVERT INLET AND OUTLET PROTECTION SHALL BE CONSTRUCTED IMMEDIATELY UPON PLACEMENT OF INLETS AND CULVERTS. INSTALLATION OF MATTING AND/OR RIP RAP TO OCCUR ONCE DITCHES ARE CONSTRUCTED.

G. WHEN FINAL GRADE IS ACHIEVED, 2" OF TOPSOIL SHALL BE PLACED ON ALL DISTURBED AREAS NOT LINED. SEED ALL DISTURBED AREAS AS REQUIRED. A SOIL SAMPLE SHOULD BE TAKEN BY THE CONTRACTOR AND TESTED TO DETERMINE RECOMMENDED RATES. IF NO SOILS SAMPLE IS TAKEN THE FOLLOWING RATES SHOULD BE APPLIES AS A MINIMUM: LIME AT A RATE OF 4 TONS PER ACRE. FERTILIZE AT A RATE OF 500 LBS. OF 10-20-10 PER ACRE. SEED WITH 45 LBS. PER ACRE OF TALL FESCUE AND 20 LBS. PER ACRE OF PERENNIAL RYE GRASS.

H. LIME, FERTILIZER, AND SEED WILL BE APPLIED BY HAND OR USING A HYDRO-SEEDER.

I. FINAL SEEDING MUST OCCUR WITHIN 7 DAYS OF FINAL GRADING.

J. WHEN SITE IS STABILIZED WITH AN ESTABLISHED LAYER OF GRASS OVER 70% OF THE SLOPES, ALL EROSION AND SEDIMENT CONTROL MEASURES CAN BE CONVERTED TO STORM WATER MANAGEMENT DEVICES AND SUPER SILT FENCE/SILT SOXX REMOVED AND THOSE AREAS REPAIRED/STABILIZED IN ACCORDANCE WITH STATE STANDARDS.

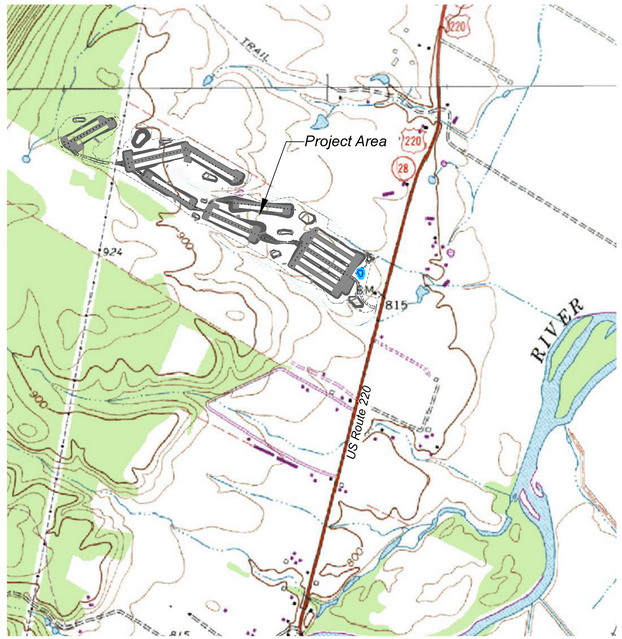
K. MAKE MODIFICATIONS FOR PERMANENT STORM WATER MANAGEMENT.

L. FINAL SITE INSPECTION.

12. PERMANENT STABILIZATION: ALL AREAS LEFT UNCOVERED BY EITHER BUILDINGS OR PAVEMENT SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. AT NO TIME SHALL LAND LAY DORMANT FOR LONGER THAN 7 DAYS. SEE SEQUENCE OF EVENTS FOR LIME, FERTILIZER, AND SEED RATES.

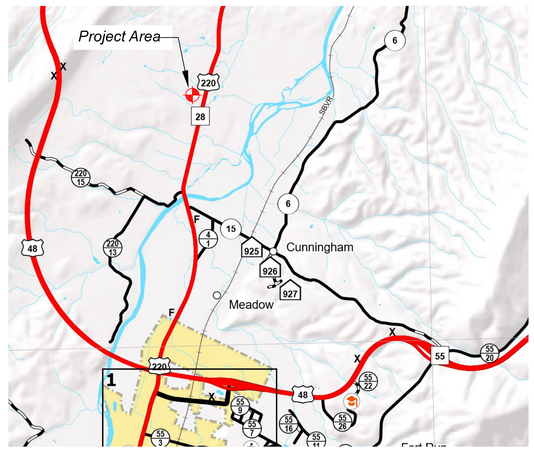
13. MAINTENANCE, AND OTHER CONSIDERATIONS AND GROUND WATER PROTECTION: ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED BY A QUALIFIED PERSON AT A MINIMUM OF EVERY 4 DAYS AND WITH IN 24 HOURS AFTER EACH RAINFALL OF 0.25 INCHES OR MORE. THEY WILL BE INSPECTED FOR UNDERMINING, DETERIORATION, EROSION AND EXCESS DEPOSITED MATERIAL. ALL DEFICIENCIES WILL BE CORRECTED IMMEDIATELY. EXCESS MATERIAL WILL BE SPREAD ON THE SITE IN A MANNER WHERE IT IS NOT LIKELY TO ERODE IN THE FUTURE. CLEANING PROCEDURES WILL BE COMPLETED AT REGULAR INTERVALS AND AT LEAST WHEN SEDIMENT REACHES CLEAN OUT LEVELS EXCEEDING 50% CAPACITY OR AS SHOWN. RECORDS OF CLEANING AND CORRECTIONS WILL BE MAINTAINED BY THE CONTRACTOR. THE ATTACHED GROUNDWATER POLLUTION PREVENTION PLAN FOR THE CONSTRUCTION SITE WILL BE USED AND AVAILABLE ON SITE AT ALL TIMES. AN AREA WILL BE PROVIDED FOR VEHICLE AND EQUIPMENT MAINTENANCE. MOBILE FUEL TRUCKS WITH APPROVED TANKS WILL BE USED ON THIS SITE. CATCH PANS SHALL BE USED UNDER EQUIPMENT DURING FUELING AND GREASE OPERATIONS TO PREVENT SPILLS FROM REACHING GROUND WATER OR SOIL. PORTABLE SANITARY FACILITIES WILL BE AVAILABLE FOR EMPLOYEES. IF CONCRETE IS USED, EXCESS CONCRETE WILL BE DISPOSED OF PROPERLY AND NOT ALLOWED TO REMAIN ON THIS SITE. MACHINERY WILL NOT BE ALLOWED IN LIVE STREAMS. FLUIDS SUCH AS DIESEL FUEL, GAS, OIL OR ANTIFREEZE WILL BE KEPT IN PROPER CONTAINERS AND ANY SPILLAGE WILL BE CLEANED AND TAKEN OFF SITE TO A PROPER FACILITY. SOLID OR HAZARDOUS WASTES WILL BE DISPOSED IN ACCORDANCE WITH APPROPRIATE STATE AND FEDERAL REGULATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO MAKE CHANGES AND NOTIFY WVDEP OF ANY CHANGES TO GPP. A FINAL INSPECTION WILL BE MADE AT THE CONCLUSION OF THE PROJECT AND ALL CORRECTIONS MADE BEFORE SIGN-OFF OF THE PROJECT SITE.

Contractor is Responsible For
MISS Utility of West Virginia
1-800-245-4848
West Virginia State Law
(Section XIV: Chapter 24-C)
Requires that you call two business days before you dig in the state of West Virginia.
IT'S THE LAW!!



Scale
0' 1000' 2000' 3000'

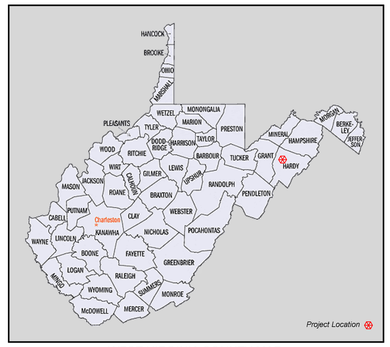
SITE LOCATIONS NAD 83 (WV SOUTH ZONE)		
	LATITUDE	LONGITUDE
Center of Site	39.120758	-78.963330
Begin Access Road	39.116543	-78.955558



Not to Scale

PROJECT SPECIFICS:

TOTAL DISTURBED AREA (LOD) = 73.38 ACRES
TOTAL PROPOSED IMPERVIOUS AREA = 33.5 ACRES
TOTAL TIMBER REMOVAL AREA = 9.5 +/- ACRES
TOTAL PROPOSED CUT AND FILL = 232,766 CY



WEST VIRGINIA COUNTY MAP

OWNER
WV Poultry Partners II LLC
PO Box 122
Moorefield, WV 26836

POC: Robert Williams, Member

Phone: 304-257-7940

Hardy County, Moorefield Tax District
Tax Map 224, Parcels 8.1 (138.9 Acres)

FEMA FLOOD PLAINS ARE NOT PRESENT ON SITE

WV DEP Storm Water NPDES Permit No.WVR_____

ESTIMATED CONSTRUCTION SCHEDULE

MOBILIZE - APRIL 27, 2020

INSTALL CONSTRUCTION ENTRANCE, EROSION AND SEDIMENT CONTROLS MAY 1 TO JUNE 1, 2020

CLEAR AND GRUB AS REQUIRED - MAY 15 - JUNE 15, 2020

CONSTRUCT E&S CONTROLS, ACCESS ROADS, AND PADS - MAY 15 2020 TO AUGUST 30, 2020

STABILIZE SLOPES - JUNE - AUGUST 2020

FINAL CLEAN UP AND DEMOBILIZATION - SEPTEMBER 2020

POULTRY HOUSE CONSTRUCTION TO START AS PAD SPACE IS AVAILABLE

DRAWING INDEX

1 COVER SHEET/LOCATION MAP/PROJECT NARRATIVE
2 CONSTRUCTION NOTES AND IMAGES
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5 - 9 SEDIMENT TRAPS 1-6 PLANS AND PROFILES / CROSS SECTIONS
10 E&S CONTROL DETAILS
11 - 12 STORMWATER TABLES AND PIPE TABLES
13 - 15 ACCESS ROADS 1-6 PLANS AND PROFILES
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20 CONSTRUCTION DETAILS
21 - 26 HOUSE PADS 1-6 PROFILES AND CROSS SECTIONS
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29 FINAL CONDITIONS SITE PLAN & PRE-POST PEAK DISCHARGE CALCULATIONS

REVISIONS | DATE

CHARLES K. WILSON REGISTERED NO. 12493 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

L&W ENTERPRISES, INC.
PO BOX 826
190 SOUTH GROVE ST.
PETERSBURG, WV 26847
PH: 304-257-4818
FAX: 304-257-2224
EMAIL: KIRKWILSON@OUTLOOK.COM

L & W Enterprises Incorporated

THIS DOCUMENT PREPARED FOR WVPP II LLC

COVER SHEET
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: As Shown
Designed By: CKW
File No. WVPPII_1-20

SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN

CONSTRUCTION SPECIFICATIONS:

1. THE ROAD, PAD AND BASINS/TRAPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND THE SCOPE OF WORK AND SHALL CONFORM GENERALLY WITH THE GRADES, BERMS, DEPTHS AND DIMENSIONS SHOWN.

2. THE CONSTRUCTION DOCUMENTS SHOW THE EXISTING AND NEW GRADES, ETC. THAT ALL CUT AND FILL ESTIMATES ARE BASED UPON. THE ENGINEERS ESTIMATES OF THE QUANTITIES ARE ONLY ESTIMATES AND MAY CHANGE BASED ON ACTUAL FIELD CONDITIONS.

3. THE GRADES, BERMS, DEPTHS, AND DIMENSIONS MAY CHANGE BASED ON ACTUAL FIELD CONDITIONS. THE ENGINEER RESERVES THE RIGHT TO CHANGE GRADES, BERMS, DEPTHS AND DIMENSIONS AS NECESSARY TO MEET FIELD CONDITIONS.

4. THE CONTRACTOR SHALL PROVIDE THE ENGINEER ALL REASONABLE ACCOMMODATIONS AND PROVIDE INFORMATION AND SAMPLES AS REQUIRED BY THE ENGINEER FOR PROPER MONITORING AND TESTING OF MATERIAL WORKMANSHIP.

5. THE CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES WHEN CONSTRUCTION IS IN PROGRESS A COMPETENT SUPERINTENDENT THOROUGHLY FAMILIAR WITH THE CONSTRUCTION OF THE COMPACTION OF SOILS.

6. SILT FENCE SHALL BE INSTALLED PRIOR TO CLEARING AND GRUBBING AS SHOWN ON THE DRAWINGS IN ACCORDANCE WITH WV DEP BEST MANAGEMENT PRACTICES MANUAL CHAPTER 3. SURFACE WATER SHALL BE DIVERTED AWAY FROM ALL EXCAVATIONS TO PREVENT FLOODING AND SOFTENING OF THE SUBGRADE OR COMPACTED MATERIALS.

7. CLEARING AND GRUBBING SHALL REMOVE ALL BRUSH, TREES, ROOTS, STUMPS, FENCES, SIGNS OR ANY OTHER MATERIAL THAT IS NOT TO BE REUSED FOR THE CONSTRUCTION. SOME STUMPS MAY REMAIN AT THE APPROVAL OF THE ENGINEER. NO CLEARING DEBRIS SHALL BE BURIED ON-SITE WITHOUT THE LANDOWNER'S AND ENGINEER'S PRIOR PERMISSION. ALL STUMPS SHALL BE WINDROWED AT THE BASE OF THE FILLS AND ALONG EDGE OF E&S CONTROLS IN AREAS SPECIFIED, OR THEY WILL BE BURNED OR CHIPPED.

8. TOP SOIL SHALL BE STRIPPED AND STOCKPILED WITH APPROPRIATE STABILIZATION AND SILT FENCE TO PREVENT EROSION. THE TOP SOIL SHALL BE REUSED ON THE FACE OF THE SLOPES PRIOR TO SEEDING.

9. TOE CUTS OF 10' MINIMUM WIDE AND 3-5' DEEP SHALL BE EXCAVATED ON ALL RECEIVING SLOPES TO PROVIDE A BASE FOR THE ANY FILL SLOPE.

10. PRIOR TO PLACING ANY FILL, THE EXPOSED SUBGRADE SHALL BE COMPACTED AND PROOF ROLLED TO PRODUCE A STABLE AND UNYIELDING SITE.

11. ROADS, PAD, AND BASINS SHALL BE CONSTRUCTED OF UNIFORMLY GRADED SOIL FREE FROM AGGREGATE EXCEEDING 6". THE FILL SHALL BE FREE OF ALL ORGANIC MATERIAL, STUMPS , BRUSH, OR OTHER DELETERIOUS MATTER. AGGREGATE SHALL NOT EXCEED 3" IN THE AREA NEAR FOUNDATIONS, PLUMBING OR OTHER UTILITIES THAT ARE TO BE INSTALLED.

12. ALL FILL SHALL BE PLACED IN LIFTS OF UP TO 12" AND SHALL BE COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY OF THE SOIL PER ASTM D-698. THE MOISTURE CONTENT SHALL BE CONTROLLED WITHIN PLUS OR MINUS 4% OF THE OPTIMUM TO FACILITATE COMPACTION. CONTRACTOR IS RESPONSIBLE FOR THE ORIGINAL SOIL TEST AND PROVIDING A COPY OF THE RESULTS WITH MOISTURE-DENSITY CURVE TO THE ENGINEER. THE CONTRACTOR SHALL DO IN-PLACE DENSITY TESTS EVERY THIRD LIFT OF SOIL AND SHALL BE DONE IN TWO RANDOM PLACES ON EACH STRAIGHT SIDE OF THE IMPOUNDMENT BERM. RECORDS SHALL BE MAINTAINED OF TEST LOCATION AND RESULTS AND PROVIDED TO THE ENGINEER ON REQUEST. AREAS THAT FAIL FOR COMPACTION SHALL BE REMOVED, RE-COMPACTED AND RETESTED FOR COMPLIANCE. IN LIEU OF MODIFIED PROCTOR TESTING, THE CONTRACTOR MAY PROOF-ROLL THE SOIL EVERY 12" OF SOIL LIFT WITH A LOADED 15 TON TANDEM DUMP TRUCK. SOIL THAT DEFECTS UNDER THE REAR WHEELS GREATER THAN 1/2" SHALL BE REMOVED, RE-COMPACTED AND RETESTED. COMPACTION OF SOIL SHALL BE DONE WITH A 5 TON SMOOTH, SHEEPS FOOT, OR VIBRATORY ROLLER.

13. ON-SITE FILL SHALL BE USED TO THE MAXIMUM EXTENT POSSIBLE. ANY IMPORTED FILL SHALL BE CERTIFIED BY THE CONTRACTOR TO BE CLEAR OF ALL HAZARDOUS SUBSTANCES OR MATERIALS. IF MATERIAL IS ENCOUNTERED THAT CANNOT BE RIPPED BY A CAT D6 WITH A SINGLE TOOTH RIPPER, THEN THE CONTRACTOR SHALL CONTACT THE ENGINEER WHO WILL VISIT THE SITE AND DETERMINE IF THE MATERIAL MAY BE USED AS IS OR MUST BE REMOVED BY OTHER MEANS. IF UNSUITABLE SOILS IN THE SUBGRADE ARE FOUND THEY SHALL BE REMOVED AND REPLACED WITH APPROPRIATE FILL AT THE CONTRACTORS EXPENSE AND THE ENGINEER'S DIRECTION.

14. MAINTENANCE AND SEEDING:

AT A MINIMUM, INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROLS WILL BE CONDUCTED EVERY 4 DAYS AND WITHIN 24 HOURS OF A RAIN EVENT OF 0.25 INCHES OR GREATER OF RAINFALL IN 24 HOURS.

EXCEPT AS NOTED BELOW, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED.

WHERE THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS CONDITIONS ALLOW.

WHERE CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN 14 DAYS FROM WHEN ACTIVITIES HAVE CEASED, (E.G., THE TOTAL TIME PERIOD THAT CONSTRUCTION ACTIVITY IS TEMPORARILY HALTED IS LESS THAN 14 DAYS) THEN STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH DAY AFTER CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED.

POST SIGN AT ENTRANCE

For Info on NPDES

Storm Water Permit
To comment on Sediment Control Plan:

Call: 800-654-5227

Or

DEP.Comments@wv.gov

DEP 601 57th Street SE, Charleston WV 25304

Application date: 3/16/2020

WV Poultry Partners II LLC.
Poultry Operation

Emergency Contact

(304) 257-7940

On 24" by 24" Board posted 36" above the Ground

TEMPORARY SEED CHART

Table 3.10.1 Temporary seed chart

PLANT NAMES		PLANTING DATES	APPLICATION RATE LBS/ACRE
COMMON	SCIENTIFIC		
Annual Ryegrass	*Lolium multiflorum*	2/16 – 5/15 8/1 – 11/1	40
Field Bromegrass	*Bromus ciliatus*	3/1 – 6/15 8/1 – 9/15	40
Spring Oats	*Avena sativa*	3/1 –6/15	100
Winter Rye	*Secale cereale*	8/15 –2/28	170
Winter Wheat	*Triticum aestivum*	8/15 – 2/28	180
Japanese Millet	*Echinochloa crusgalli*	5/15 – 8/15	30
Redtop	*Agrostis alba*	3/1 – 6/15	10
Annual Ryegrass and Spring Oats	*Lolium multiflorum* *Avena sativa*	3/1 – 6/15	30 70
German/Foxtail Millet	*Setaria italica*	5/1 – 8/1	40
Hairy Vetch	*Vicia villosa*	8/15 – 4/1	60

*Inoculation is required. If a hydroseeder is utilized, the application rate is 5 times the recommended rate.

GENERAL NOTES

1. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH PROBLEMS. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES SHALL BE DONE AT THE CONTRACTOR'S RISK.

2. WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF THE WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE HANDBOOK. IN THE EVENT OF CONFLICT BETWEEN THE DESIGN, SPECIFICATIONS, OR PLANS, THE MOST STRINGENT WILL GOVERN.

3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DAILY, RELOCATED WHEN NECESSARY AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE STAND OF GRASS. AREAS WHERE SEED FAILS TO GERMINATE ADEQUATELY (UNIFORM PERENNIAL VEGETATIVE GROWTH WITH A DENSITY OF 70%) WITHIN 30 DAYS OF SEEDING AND MULCHING, SHALL BE RE-SEEDED IMMEDIATELY OR AS SOON AS WEATHER ALLOWS.

4. ALL DRAIN INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE MEANS OF CLEANING.

5. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL PUBLIC OR PRIVATE UTILITIES WHICH LIE IN OR ADJACENT TO THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR, AT HIS OR HER EXPENSE, OF ALL EXISTING UTILITIES DAMAGED DURING CONSTRUCTION. FORTY-EIGHT HOURS PRIOR TO ANY EXCAVATION THE CONTRACTOR SHALL CALL MISS UTILITY AT (800) 552-7001.

6. INSTALLATION OF CONCRETE, CORRUGATED METAL, OR HDPL STORM PIPE SHALL BE IN CONFORMANCE WITH THESE DRAWINGS.

7. ALL MATERIALS USED FOR FILL OR BACK FILL SHALL BE FREE OF WOOD, ROOTS, ROCKS, BOULDERS OR ANY OTHER NON-COMPACTABLE SOIL TYPE MATERIALS. UNSATISFACTORY MATERIALS ALSO INCLUDE MAN MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE.

8. MATERIALS USED TO FILL AROUND DRAINAGE STRUCTURES IN UTILITY TRENCHES OR ANY OTHER DEPRESSION REQUIRING FILL OR BACK FILL SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR TEST AS SET FORTH IN ASTM STANDARD D-698. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACK FILLING, SUBMIT THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. THE TESTS SHALL BE CONDUCTED BY A CERTIFIED MATERIALS TESTING LABORATORY AND THE CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REPRESENTING THE LABORATORY. THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THESE TESTS AND THEIR SUBMITTALS.

9. FILL SHALL BE PLACED IN LIFTS AT A MAXIMUM UNCOMPACTED DEPTH OF 12-INCHES WITH SOIL FREE FROM AGGREGATES EXCEEDING 6".

10. ALL TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER. FAILURE TO CONDUCT DENSITY TESTS SHALL BE CAUSE FOR NON-ACCEPTANCE OF THE FACILITY. TESTS SHALL BE CONDUCTED AT THE SOLE COST OF THE CONTRACTOR OR HIS AGENT.

11. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE START OF CONSTRUCTION.

12. SATISFACTORY MATERIALS FOR USE AS FILL FOR PAD AREAS INCLUDE MATERIALS CLASSIFIED IN ASTM D-2487AS GW, GP, GM, GC, SW, SP, SM, SC, ML, AND CL GROUPS. THE MOISTURE CONTENT SHALL BE CONTROLLED WITHIN PLUS OR MINUS 4% OF THE OPTIMUM TO FACILITATE COMPACTION, GENERALLY, UNSATISFACTORY MATERIALS INCLUDE MATERIALS CLASSIFIED IN ASTM D-2487 AS PT, CH, MH, OL, OH AND ANY SOIL TOO WET TO FACILITATE COMPACTION. CH AND MH SOILS MAY BE USED SUBJECT TO APPROVAL OF THE ENGINEER. SOILS SHALL HAVE A MINIMUM DRY DENSITY OF 92LB/CF PER ASTM D-698 AND SHALL HAVE A PLASTICITY INDEX LESS THAT 17.

13. CONTRACTOR SHALL SUBMIT AND ADHERE TO A GENERAL GROUNDWATER PROTECTION PLAN.

EROSION CONTROL NOTES

1. THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE WITH THE APPROPRIATE EROSION AND SEDIMENT CONTROL INSPECTOR 48 HOURS PRIOR TO BEGINNING WORK.

2. ALL EROSION CONTROL DEVICES AS SHOWN OR AS REQUIRED, ARE TO BE CONSTRUCTED TO THE CURRENT STANDARDS AND SPECIFICATIONS OF THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL AND ARE TO BE IN PLACE PRIOR TO ALL CONSTRUCTION.

3. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY, RELOCATED WHEN AND AS NECESSARY AND SHALL BE CHECKED AFTER EVERY RAINFALL. SEEDED AREAS SHALL BE CHECKED REGULARLY AND SHALL BE WATERED, FERTILIZED, RESEEDED AND MULCHED AS NECESSARY TO OBTAIN A DENSE (GREATER THAN 70%) STAND OF GRASS.

4. ALL DISTURBED AREAS NOT PAVED OR BUILT UPON ARE TO BE FERTILIZED, SEEDED, AND MULCHED BY THE CONTRACTOR IN ACCORDANCE WITH THE CURRENT WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICE MANUAL.

5. ALL DRAIN INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED. FLUSHING IS NOT AN ACCEPTABLE METHOD OF CLEANING.

6. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS.

7. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.

8. SEDIMENT TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.

9. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS IMPOUNDMENTS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.

10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

11. ALL DISTURBED AREAS NOT PAVED OR BUILT UPON SHALL BE SEEDED, MULCHED AND FERTILIZED. PERFORM PERMANENT TOP SOILING, SEEDING, FERTILIZING, AND MATTING AS SOON AFTER FINISH GRADING AS POSSIBLE. SEEDING SHALL COMPLY WITH THE FOLLOWING:

A. TOPSOIL - 4 INCH MINIMUM FOR PERMANENT TURF

B. FERTILIZER - 500 POUNDS PER ACRES OF 10-20-10 FERTILIZER OR EQUIVALENT POUNDAGE OF DIFFERENT ANALYSIS. WORK INTO SOIL PRIOR TO SEEDING.

C. LIME (PERMANENT SEEDING) - AGRICULTURAL LIME SPREAD AT RATE OF 4 TONS/ACRE. WORK INTO SOIL PRIOR TO SEEDING.

D. MULCH - WOOD FIBER OR CHOPPED STRAW AT RATE OF 2 TONS PER ACRE. HYDRO-MULCH AT RATE OF 30 BALES PER ACRE.

E. SEED - 45 LBS. PER ACRE TALL FESCUE AND 20 LBS. PER ACRE PERENNIAL RYE GRASS. TO BE SEEDED BY HAND OR HYDRO-SEEDER.

AREAS WHERE THE SEED HAS FAILED TO GERMINATE ADEQUATELY(UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%) WITHIN 30 DAYS OF SEEDING AND MULCHING, SHALL BE RE-SEEDED IMMEDIATELY OR AS SOON AS WEATHER ALLOWS.

REVISIONS

DATE

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L & W Enterprises Incorporated

THIS DOCUMENT PREPARED FOR WVPP II LLC

SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

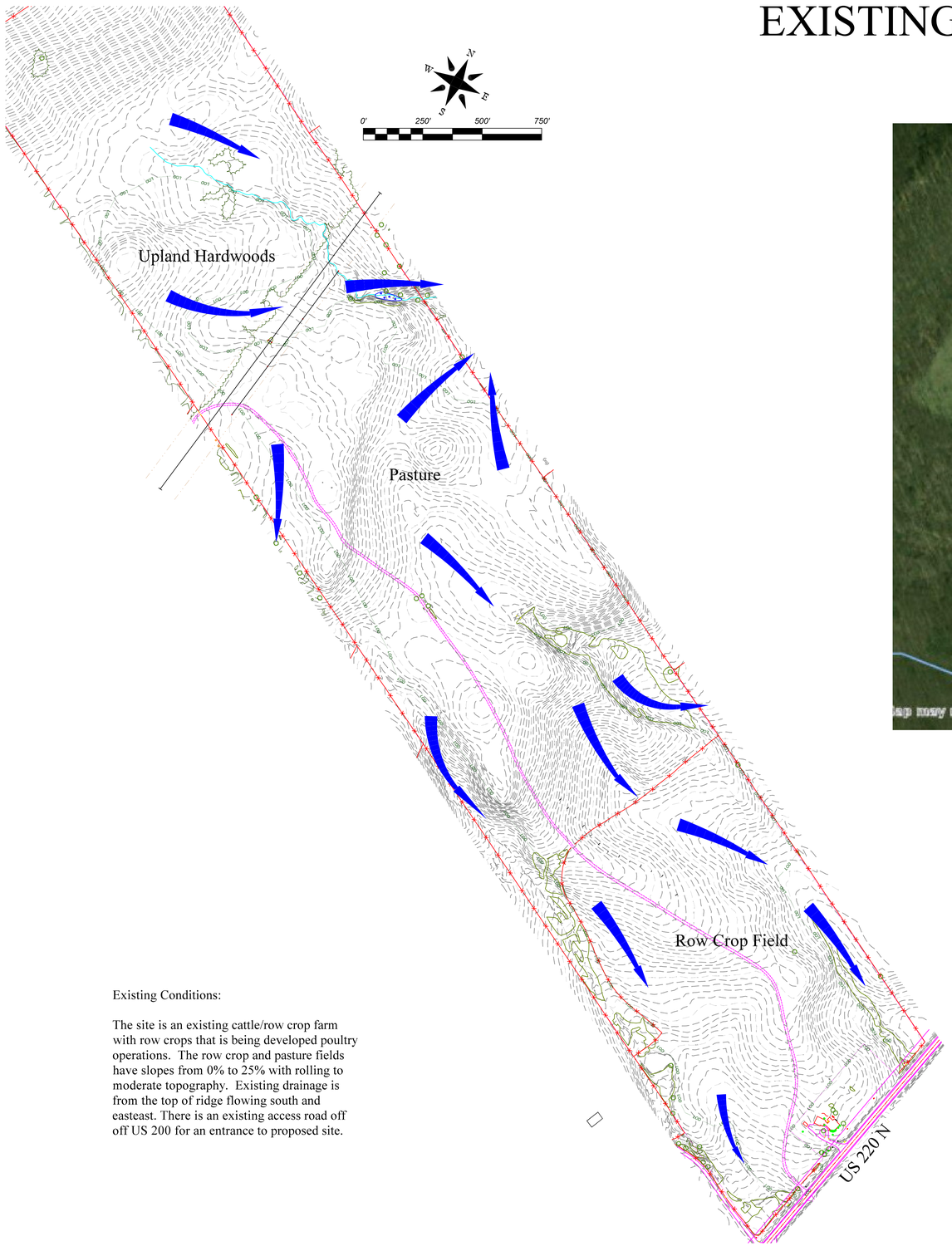
Date: 3/16/20

Scale: NTS

Designed By: CKW

File No. WVPPII_1-20

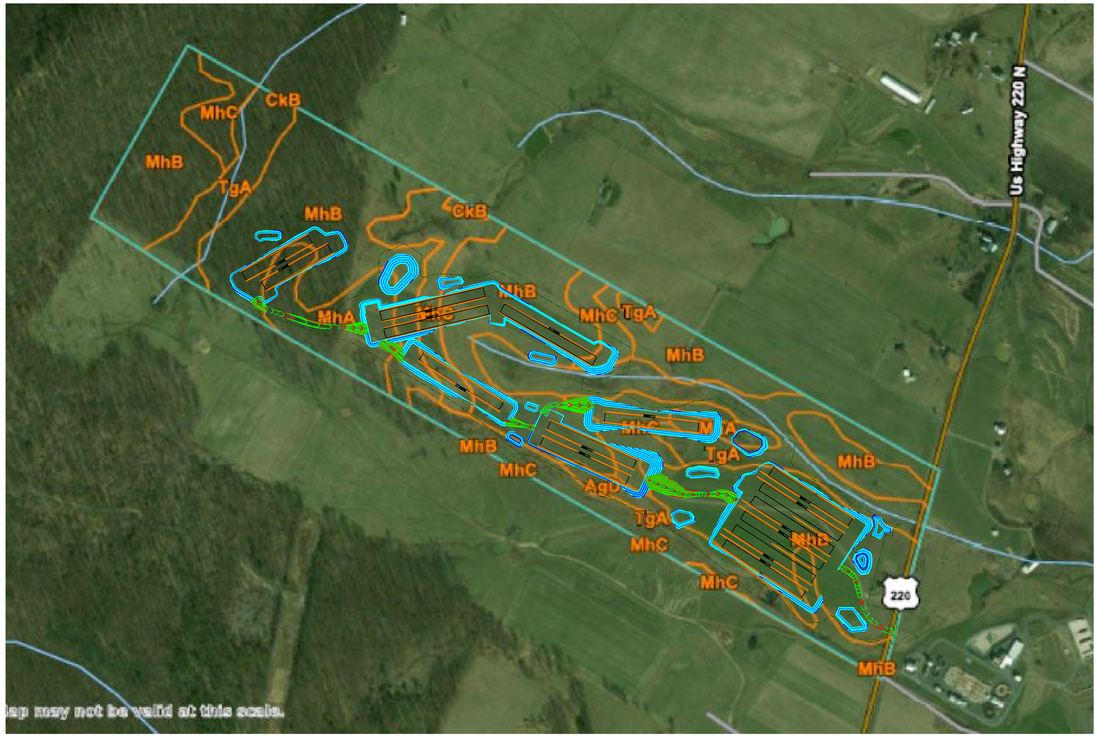
EXISTING CONDITIONS



Existing Conditions:

The site is an existing cattle/row crop farm with row crops that is being developed poultry operations. The row crop and pasture fields have slopes from 0% to 25% with rolling to moderate topography. Existing drainage is from the top of ridge flowing south and easteast. There is an existing access road off off US 200 for an entrance to proposed site.

Excerpts from WVPP II USDA Soils Report



NTS

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
AgD	Allegheny loam, 15 to 25 percent slopes	1.9	1.0%
CkB	Clarksburg channery silt loam, 3 to 8 percent slopes	0.4	0.2%
MhA	Monongahela silt loam, 0 to 3 percent slopes	13.0	6.9%
MhB	Monongahela silt loam, 3 to 8 percent slopes	105.7	56.4%
MhC	Monongahela silt loam, 8 to 15 percent slopes	22.6	12.0%
TgA	Tygart silt loam, 0 to 3 percent slopes	44.0	23.5%
Totals for Area of Interest		**187.6**	**100.0%**

Legend
- *Existing 1' Contour*
- *Existing 5' Contour*
- *Existing Tree Line*
- *Limits of Disturbance*
- *Property Boundary*
- *Fence Line*

REVISIONS | DATE

CHARLES K. WILSON REGISTERED NO. 12483 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER

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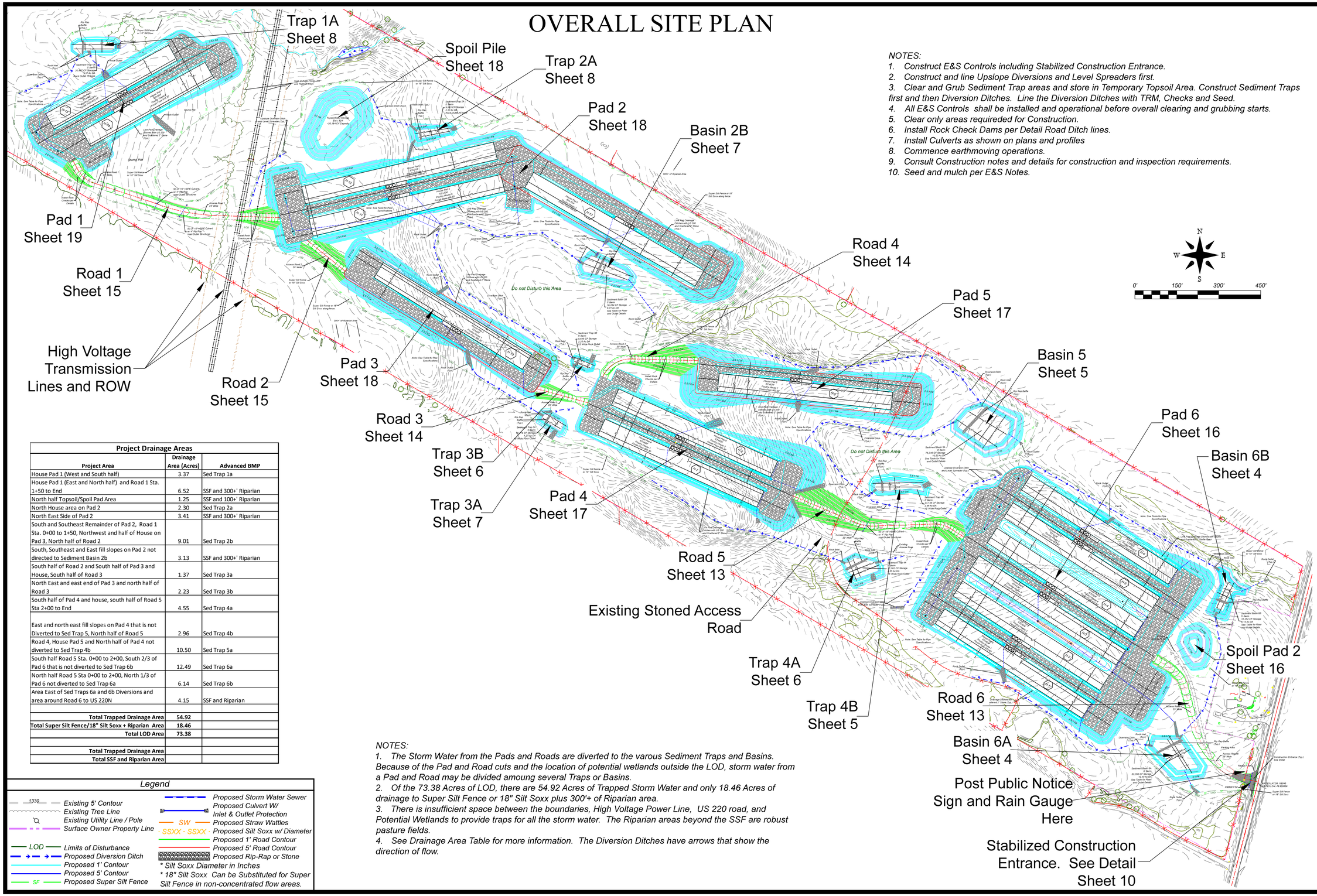
EXISTING CONDITIONS
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 250'
Designed By: CKW
File No. WVPPII_1-20

OVERALL SITE PLAN



NOTES:

1. *Construct E&S Controls including Stabilized Construction Entrance.*
2. *Construct and line Upslope Diversions and Level Spreaders first.*
3. *Clear and Grub Sediment Trap areas and store in Temporary Topsoil Area. Construct Sediment Traps first and then Diversion Ditches. Line the Diversion Ditches with TRM, Checks and Seed.*
4. *All E&S Controls shall be installed and operational before overall clearing and grubbing starts.*
5. *Clear only areas requireded for Construction.*
6. *Install Rock Check Dams per Detail Road Ditch lines.*
7. *Install Culverts as shown on plans and profiles*
8. *Commence earthmoving operations.*
9. *Consult Construction notes and details for construction and inspection requirements.*
10. *Seed and mulch per E&S Notes.*

Project Drainage Areas

Project Area	Drainage Area (Acres)	Advanced BMP
House Pad 1 (West and South half)	3.37	Sed Trap 1a
House Pad 1 (East and North half) and Road 1 Sta. 1+50 to End	6.52	SSF and 300+' Riparian
North half Topsoil/Spoil Pad Area	1.25	SSF and 100+' Riparian
North House area on Pad 2	2.30	Sed Trap 2a
North East Side of Pad 2	3.41	SSF and 300+' Riparian
South and Southeast Remainder of Pad 2, Road 1 Sta. 0+00 to 1+50, Northwest and half of House on Pad 3, North half of Road 2	9.01	Sed Trap 2b
South, Southeast and East fill slopes on Pad 2 not directed to Sediment Basin 2b	3.13	SSF and 300+' Riparian
South half of Road 2 and South half of Pad 3 and House, South half of Road 3	1.37	Sed Trap 3a
North East and east end of Pad 3 and north half of Road 3	2.23	Sed Trap 3b
South half of Pad 4 and house, south half of Road 5 Sta 2+00 to End	4.55	Sed Trap 4a
East and north east fill slopes on Pad 4 that is not Diverted to Sed Trap 5, North half of Road 5	2.96	Sed Trap 4b
Road 4, House Pad 5 and North half of Pad 4 not diverted to Sed Trap 4b	10.50	Sed Trap 5a
South half Road 5 Sta. 0+00 to 2+00, South 2/3 of Pad 6 that is not diverted to Sed Trap 6b	12.49	Sed Trap 6a
North half Road 5 Sta 0+00 to 2+00, North 1/3 of Pad 6 not diverted to Sed Trap 6a	6.14	Sed Trap 6b
Area East of Sed Traps 6a and 6b Diversions and area around Road 6 to US 220N	4.15	SSF and Riparian
Total Trapped Drainage Area	**54.92**	
Total Super Silt Fence/18" Silt Soxx + Riparian Area	**18.46**	
Total LOD Area	**73.38**	
Total Trapped Drainage Area		
Total SSF and Riparian Area		

Legend

- *Existing 5' Contour* (1330)
- *Existing Tree Line*
- *Existing Utility Line / Pole*
- *Surface Owner Property Line*
- *Limits of Disturbance* (LOD)
- *Proposed Diversion Ditch*
- *Proposed 1' Contour*
- *Proposed 5' Contour*
- *Proposed Super Silt Fence* (SF)
- *Proposed Storm Water Sewer*
- *Proposed Culvert W/ Inlet & Outlet Protection*
- *Proposed Straw Wattles* (SW)
- *Proposed Silt Soxx w/ Diameter* (SSXX)
- *Proposed 1' Road Contour*
- *Proposed 5' Road Contour*
- *Proposed Rip-Rap or Stone*

** Silt Soxx Diameter in Inches*

** 18" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.*

NOTES:

1. *The Storm Water from the Pads and Roads are diverted to the varous Sediment Traps and Basins. Because of the Pad and Road cuts and the location of potential wetlands outside the LOD, storm water from a Pad and Road may be divided amoung several Traps or Basins.*
2. *Of the 73.38 Acres of LOD, there are 54.92 Acres of Trapped Storm Water and only 18.46 Acres of drainage to Super Silt Fence or 18" Silt Soxx plus 300'+ of Riparian area.*
3. *There is insufficient space between the boundaries, High Voltage Power Line, US 220 road, and Potential Wetlands to provide traps for all the storm water. The Riparian areas beyond the SSF are robust pasture fields.*
4. *See Drainage Area Table for more information. The Diversion Ditches have arrows that show the direction of flow.*

REVISIONS

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L & W Enterprises Incorporated

THIS DOCUMENT PREPARED FOR WVPP II LLC

OVERALL SITE PLAN
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

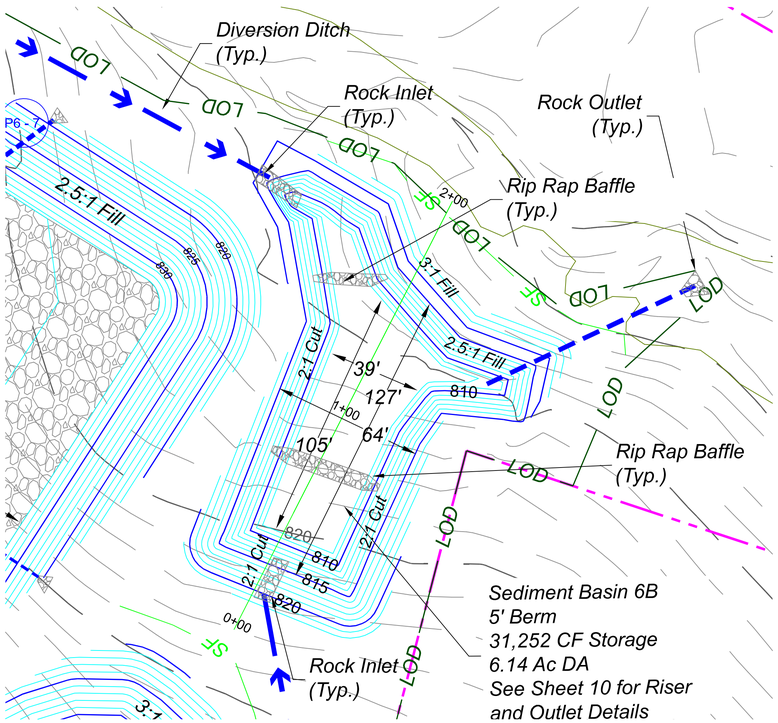
Date: 3/16/20

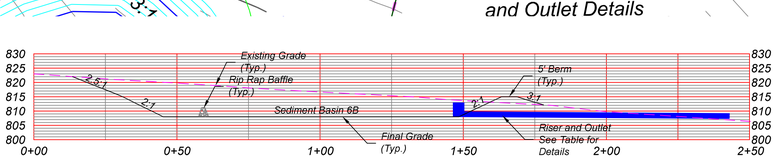
Scale: 1" = 150'

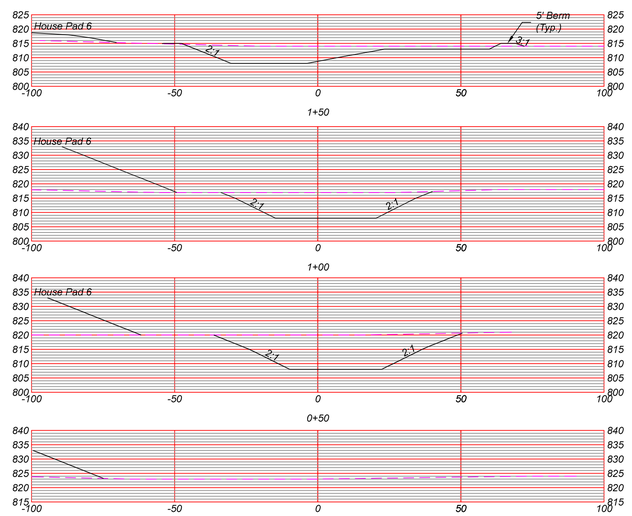
Designed By: CKW

File No. WVPPII_1-20

SEDIMENT BASINS 6B AND 6A







0' 25' 50' 75'

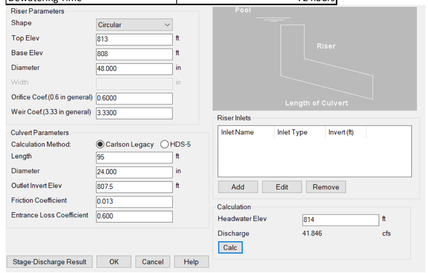
Profile and Cross Section Views Scale
1"= 25'

N
W E
S

Plan View Scales
1"= 30'

0' 30' 60' 90'

Sediment Basin 6b Data	
Dranage Area (Acres)	6.14
Storage Required (CF)	22104
Full Capacity (CF) Top of Riser	22291
Berm Elevation	815
25 yr Storm Elev	814
Bottom Elevation	808
Interior Slopes	2:1
Exterior Slope	3:1
Max Berm Height	3'
Berm Thickness	5'
Bottom Dimensions	105' by 39'
Top Dimensions	127' by 64'
Riser Dimension (Inches)	48
Riser Top Elevation	813
Riser Invert Elevation	808
24" Riser Culvert Outlet Invert	807.5
Orifice Elevation	810
Orifice Diameter (Inches)	1
Riser Flow with 1' Freeboard	41.85 (24.94cfs Req)
Dewatering Time	72 hours



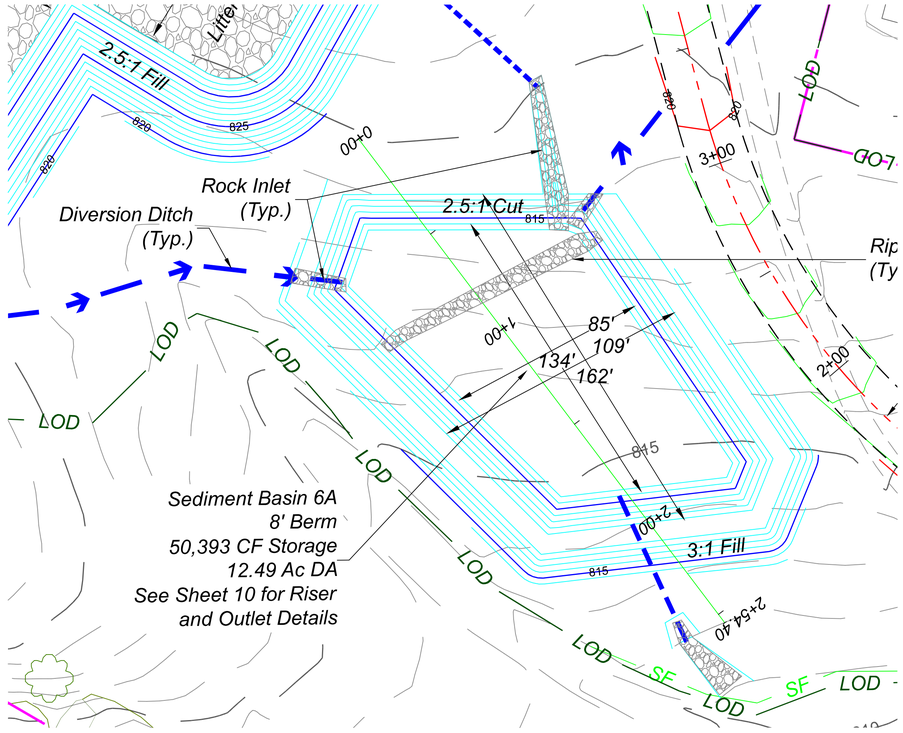
See Sheet 10 for Riser Schematics and Skimmer Details

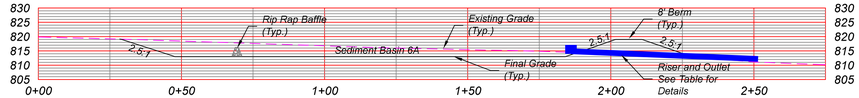
INLET AND OUTLET PROTECTION
FOR CULVERTS AND DIVERSION DITCHES
D50 STONE SIZE=0.5'
MAX STONE DIAMETER=0.75'
APRON LENGTH = 9.0'
APRON WIDTH UPSTREAM=3.75'
APRON WIDTH DOWNSTREAM=10.25'
STONE DEPTH = 1.68'

Legend

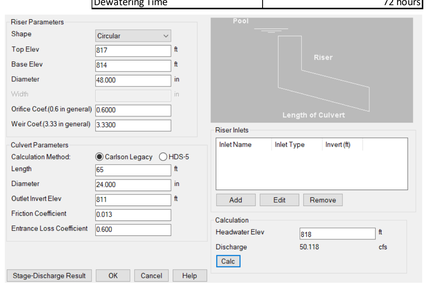
- Existing 1' Contour
- Existing 5' Contour
- Existing Tree Line
- Existing Utility Line / Pole
- Surface Owner Property Line
- LOD — Limits of Disturbance
- Proposed Diversion Ditch
- Proposed 1' Contour
- Proposed 5' Contour
- SF — Proposed Super Silt Fence
- Proposed Rock Check Dam
- Proposed Culvert W/ Inlet & Outlet Protection
- SW — Proposed Straw Wattles
- SSXX — Proposed Silt Soxx w/ Diameter
- Proposed 1' Road Contour
- Proposed 5' Road Contour
- Proposed Rip-Rap

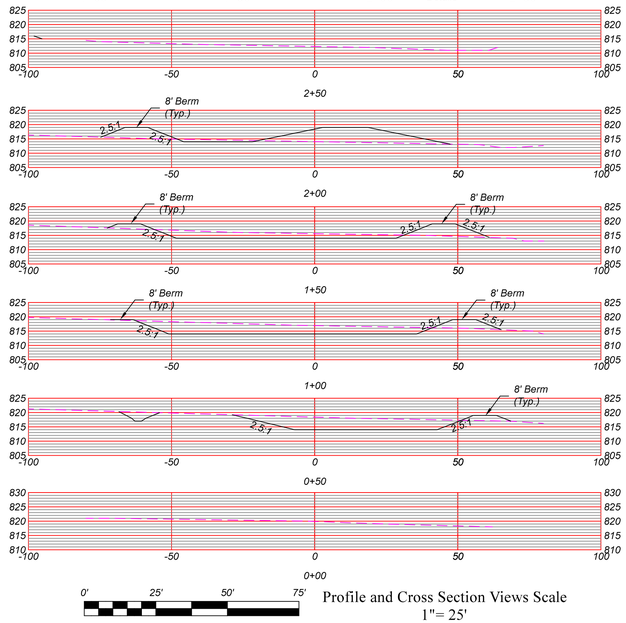
* Silt Soxx Diameter in Inches
* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.





Sediment Basin 6a Data	
Dranage Area (Acres)	12.49
Storage Required (CF)	44964
Full Capacity (CF) Top of Riser	50393
Berm Elevation	819
25 yr Storm Elev	818
Bottom Elevation	813
Interior Slopes	2.5:1
Exterior Slope	2.5:1
Max Berm Height	6'
Berm Thickness	8'
Bottom Dimensions	134' by 85'
Top Dimensions	162' by 109'
Riser Dimension (Inches)	48
Riser Top Elevation	817
Riser Invert Elevation	814
24" Riser Culvert Outlet Invert	812
Orifice Elevation	815
Orifice Diameter (Inches)	1.5
Riser Flow with 1' Freeboard	50.19 cfs (44.39 cfs required)
Dewatering Time	72 hours





0' 25' 50' 75'

Profile and Cross Section Views Scale
1"= 25'

REVISIONS | DATE

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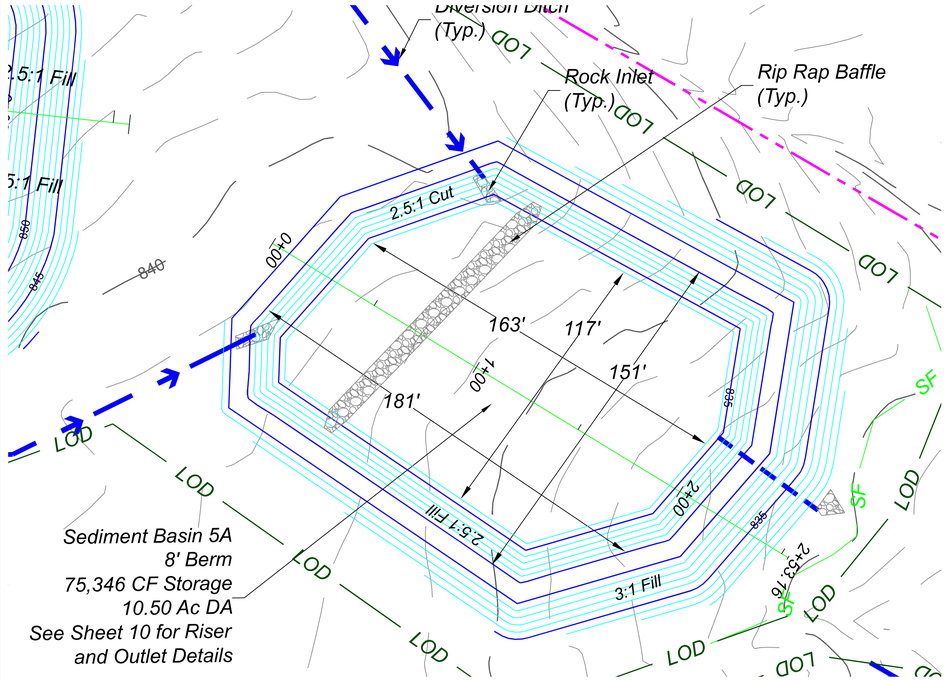
L & W Enterprises Incorporated

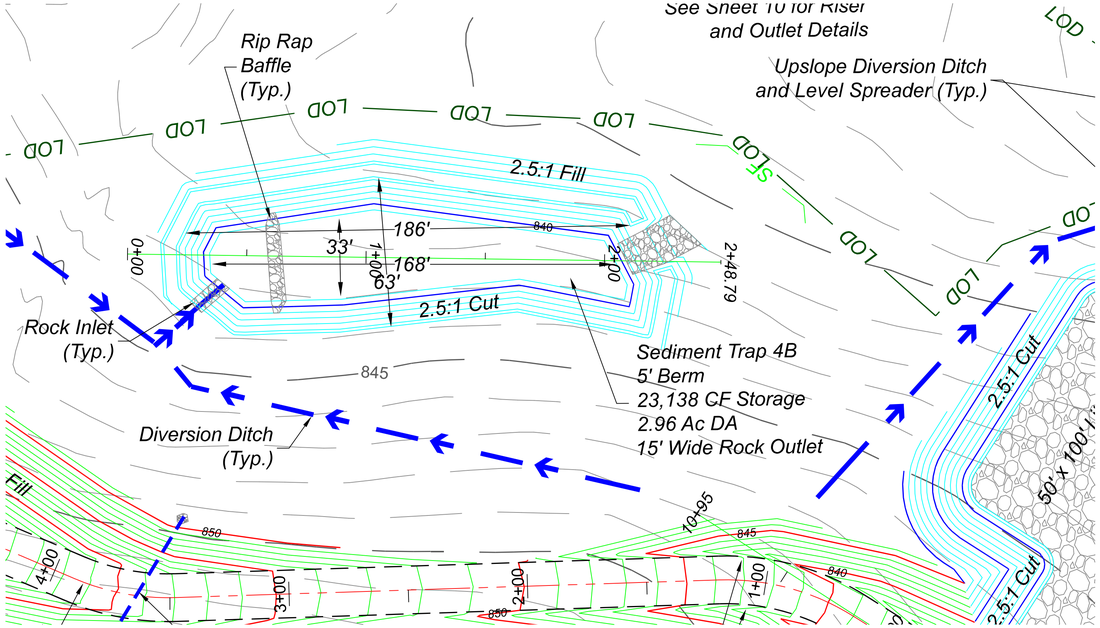
THIS DOCUMENT PREPARED FOR WVPP II LLC

SEDIMENT BASIN 6B AND 6A
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
MOOREFIELD DISTRICT
HARDY COUNTY, WV
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN

Date: 3/16/20
Scale: 1" = 25'/30'
Designed By: CKW
File No. WVPPII_1-20

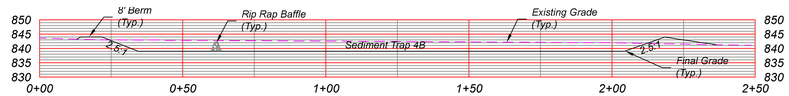
SEDIMENT BASIN 5A AND TRAP 4B

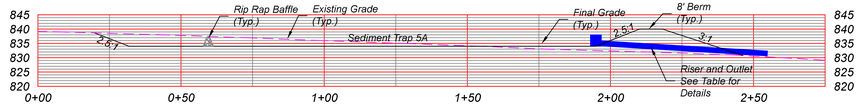




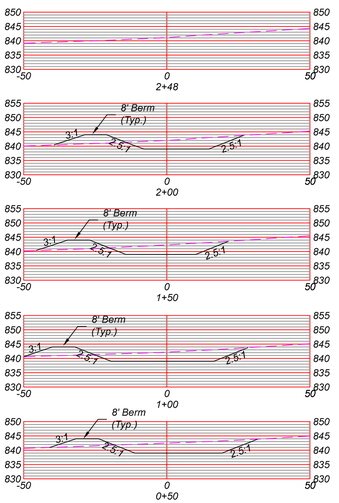
Plan View Scales
1"= 30'

0' 30' 60' 90'





Sediment Trap 4b Data	
Dranage Area (Acres)	2.96
Storage Required (CF)	10656
Full Capacity (CF) Crest Spillway	23138
Berm Elevation	844.5
Crest Spillway	843.5
Bottom Elevation	838.5
Interior Slopes	2.5:1
Exterior Slope	3:1
Max Berm Height	3'
Berm Thickness at Top	5'
Bottom Dimensions	171' by 33'
Top Dimensions	186' by 62'
Spillway Dimension	Trapazoidal 15' base w/ 2.5:1 Sides
Spillway Flow w/ 1' Freeboard	22.1 cfs (14.11 cfs Req)
Dewatering Time	48 hours



0' 25' 50' 75'

Profile and Cross Section Views Scale
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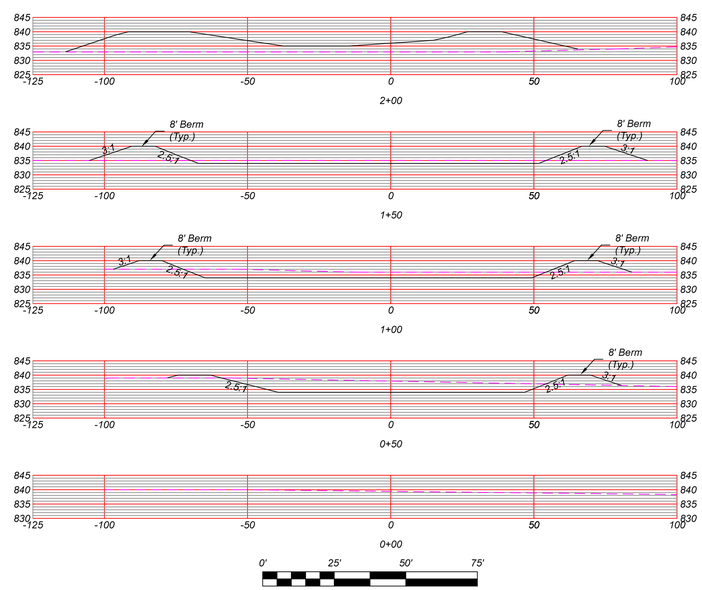
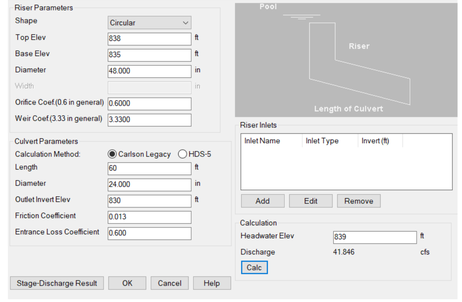


Sediment Basin 5a Data	
Dranage Area (Acres)	10.5
Storage Required (CF)	37800
Full Capacity (CF) Top of Riser	75346
Berm Elevation	840
25 yr Storm Elev	839
Bottom Elevation	834
Interior Slopes	2.5:1
Exterior Slope	3:1
Max Berm Height	8'
Berm Thickness	8'
Bottom Dimensions	163' by 117'
Top Dimensions	181' by 151'
Riser Dimension (Inches)	48
Riser Top Elevation	838
Riser Invert Elevation	835
24" Riser Culvert Outlet Invert	830
Orifice Elevation	836
Orifice Diameter (Inches)	2
Riser Flow with 1' Freeboard	41.86 cfs (30.10cfs required)
Dewatering Time	72 hours

See Sheet 10 for
Riser Schematics
and Skimmer Details



INLET AND OUTLET PROTECTION
FOR CULVERTS AND DIVERSION DITCHES
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STONE DEPTH = 1.68'

Legend

- Existing 1' Contour
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* Silt Soxx Diameter in Inches
* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

REVISIONS

DATE

L&W ENTERPRISES, INC.
PO BOX 826
199 SOUTH GROVE ST.
PETERSBURG, WV 26847
PH: 304-257-4818
FAX: 304-257-2224
EMAIL: KIRKWILSONLW@OUTLOOK.COM

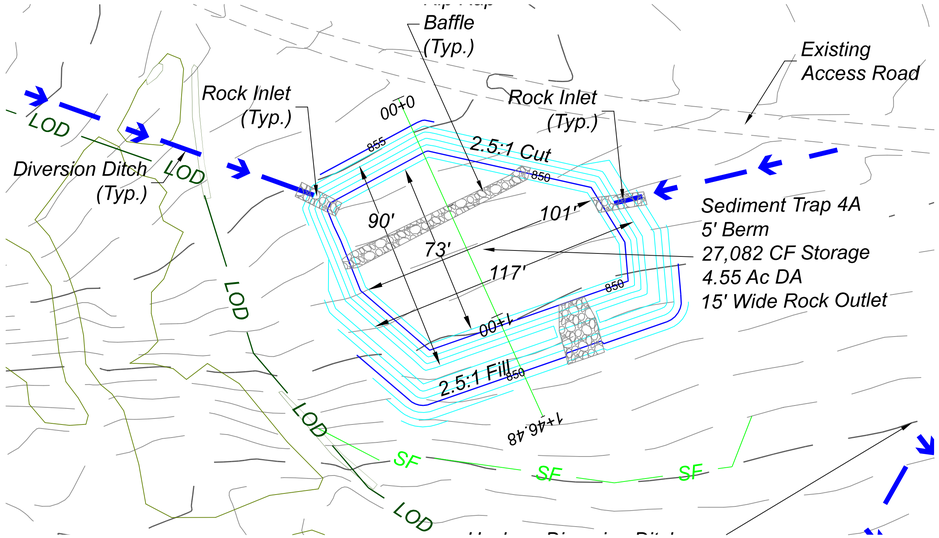
L & W Enterprises Incorporated

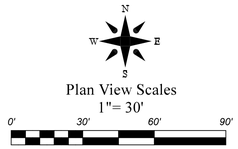
THIS DOCUMENT
PREPARED FOR
WVPP II LLC

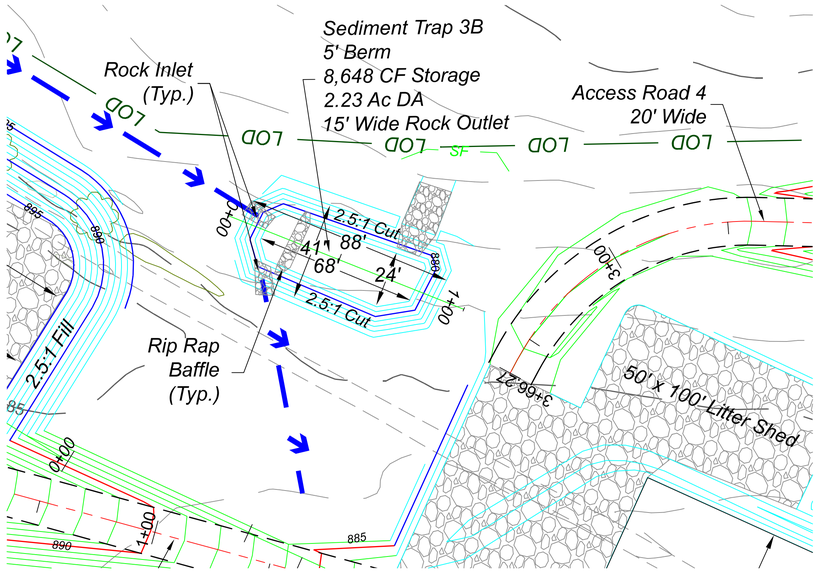
SEDIMENT BASIN 5A AND TRAP 4B
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
MOOREFIELD DISTRICT
HARDY COUNTY, WV
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN

Date: 3/16/20
Scale: 1" = 25'/30'
Designed By: CKW
File No. WVPPII_1-20

SEDIMENT TRAPS 4A AND 3B

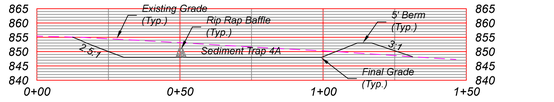


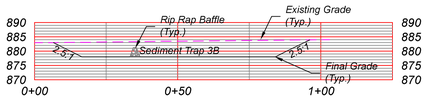




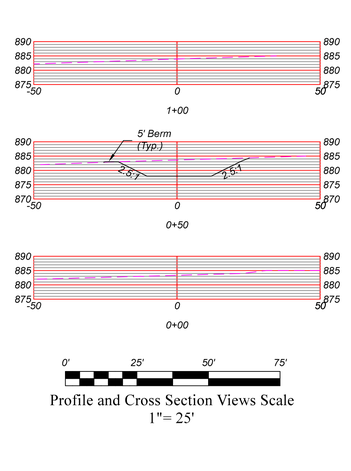
Sediment Trap 4a Data	
Dranage Area (Acres)	4.55
Storage Required (CF)	16380
Full Capacity (CF) Crest Spillway	27082
Berm Elevation	853
Crest Spillway	852
Bottom Elevation	848
Interior Slopes	2.5:1
Exterior Slope	3:1
Max Berm Height	4'
Berm Thickness at Top	5'
Bottom Dimensions	96' by 68'
Top Dimensions	117' by 90'
Spillway Dimension	Trapazoidal 15' base w/ 2.5:1 Sides
Spillway Flow w/ 1' Freeboard	22.1 cfs (18.29 cfs Req)
Dewatering Time	48 hours

Sediment Trap 3b Data	
Dranage Area (Acres)	2.23
Storage Required (CF)	8028
Full Capacity (CF) Crest Spillway	8648
Berm Elevation	883
Crest Spillway	882
Bottom Elevation	878
Interior Slopes	2.5:1
Exterior Slope	2.5:1
Max Berm Height	1
Berm Thickness at Top	5
Bottom Dimensions	68' by 24'
Top Dimensions	88' by 41'
Spillway Dimension	Trapazoidal 15' base w/ 2.5:1 Sides
Spillway Flow w/ 1' Freeboard	22.1 cfs (8.42 cfs Req)
Dewatering Time	48 hours





Profile and Cross Section Views Scale
1"= 25'



Profile and Cross Section Views Scale
1"= 25'

Legend

- Existing 1' Contour
- Existing 5' Contour (1330)
- Existing Tree Line
- Existing Utility Line / Pole
- Surface Owner Property Line
- LOD — Limits of Disturbance
- Proposed Diversion Ditch
- Proposed 1' Contour
- Proposed 5' Contour
- SF — Proposed Super Silt Fence
- Proposed Rock Check Dam
- Proposed Culvert W/ Inlet & Outlet Protection
- SW — Proposed Straw Wattles
- SSXX — Proposed Silt Soxx w/ Diameter
- Proposed 1' Road Contour
- Proposed 5' Road Contour
- Proposed Rip-Rap

* Silt Soxx Diameter in Inches
* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

INLET AND OUTLET PROTECTION FOR CULVERTS AND DIVERSION DITCHES
D50 STONE SIZE=0.5'
MAX STONE DIAMETER=0.75'
APRON LENGTH = 9.0'
APRON WIDTH UPSTREAM=3.75'
APRON WIDTH DOWNSTREAM=10.25'
STONE DEPTH = 1.68'

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SEDIMENT TRAPS 4A AND 3B
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

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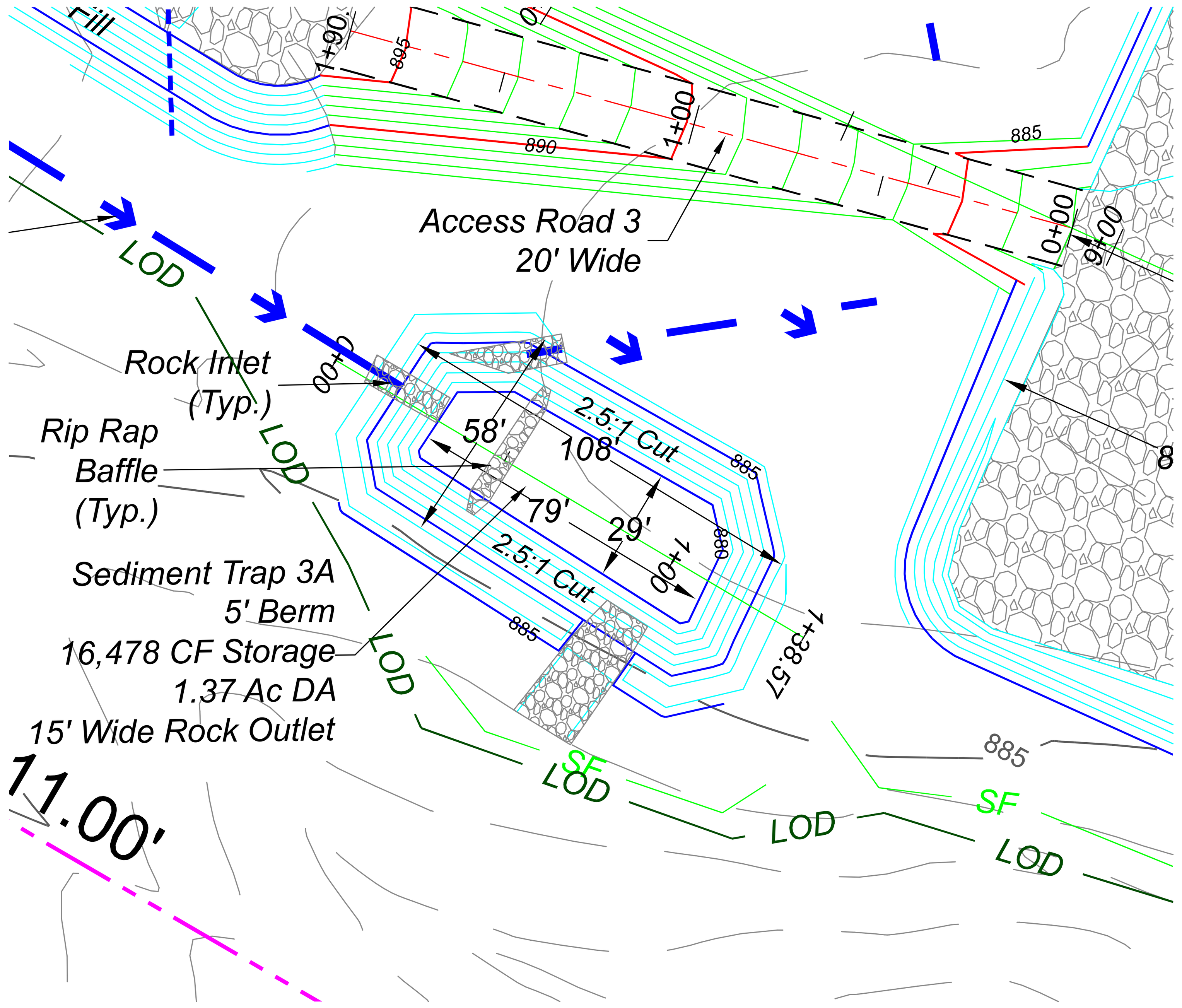
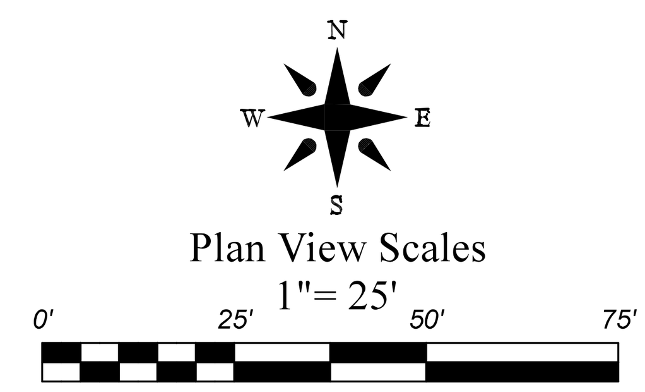
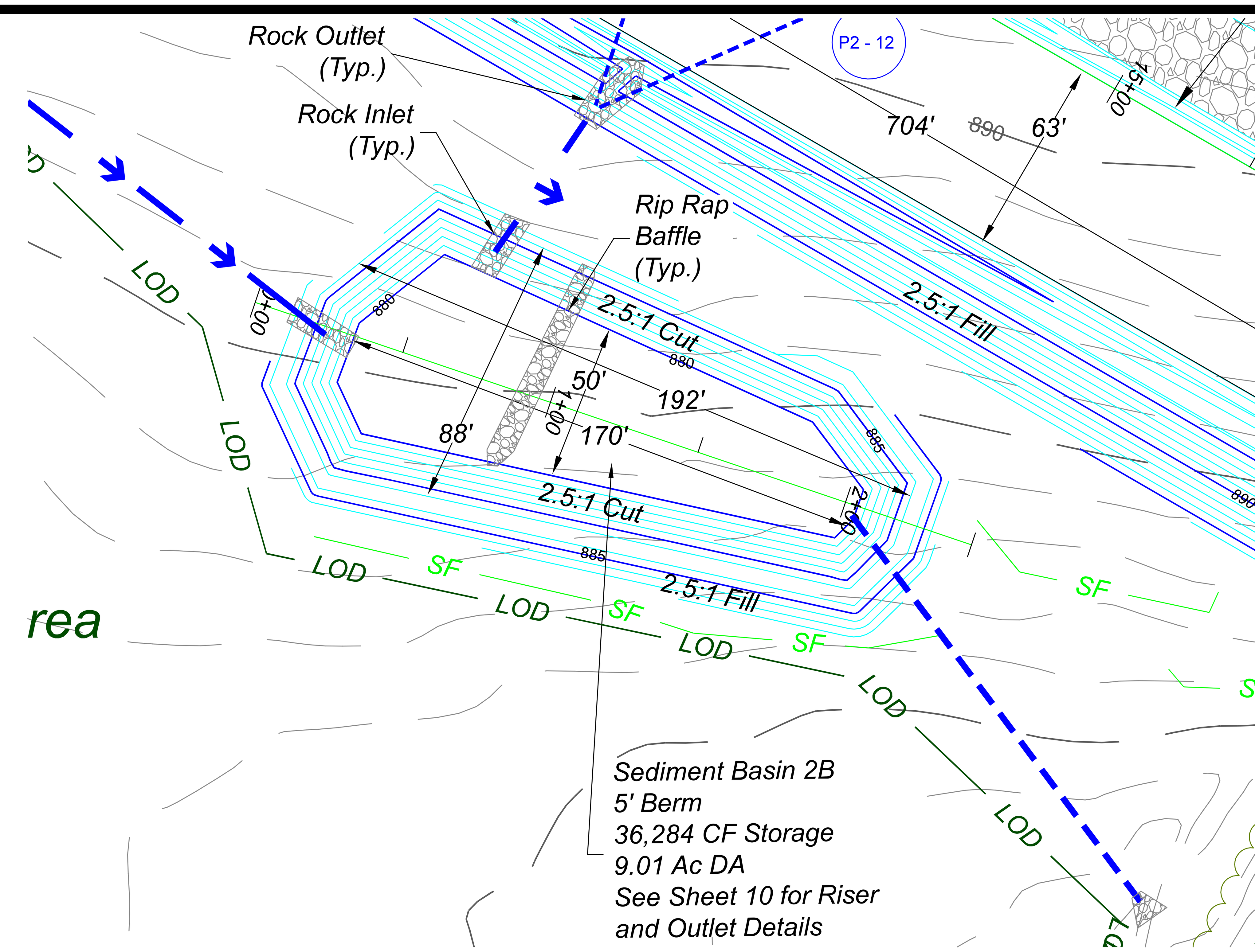
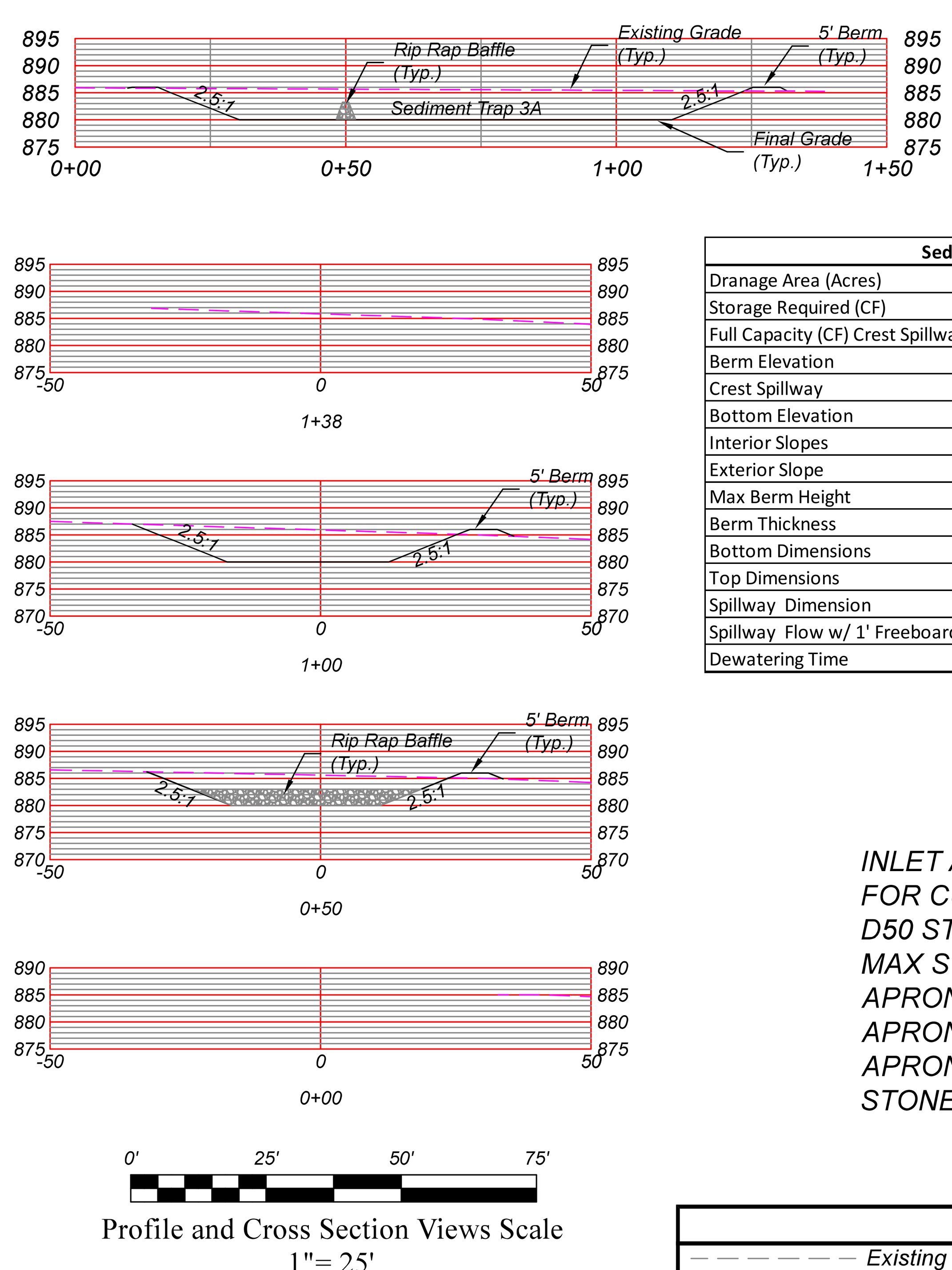
SEDIMENT TRAP 3A AND BASIN 2B







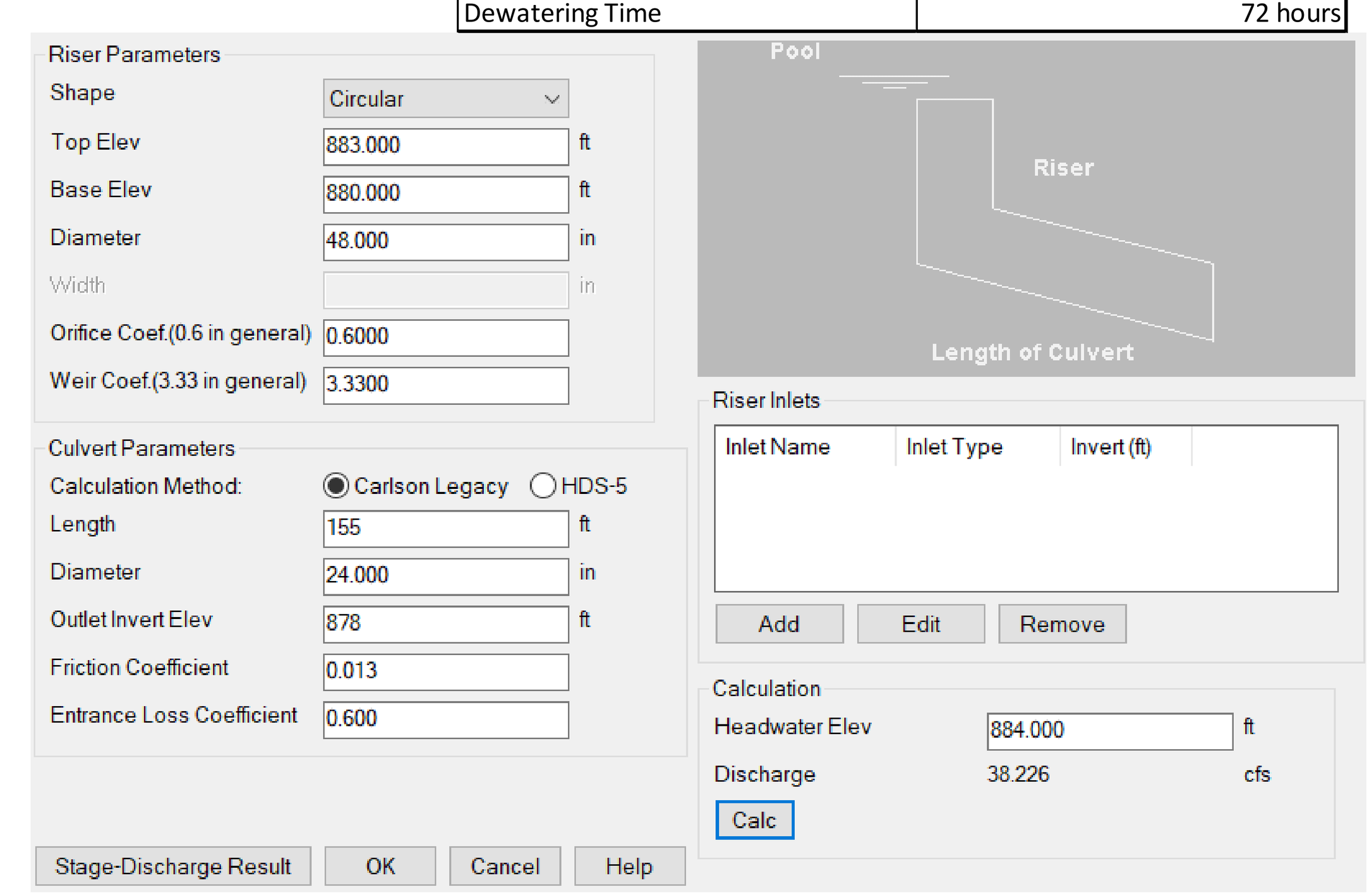


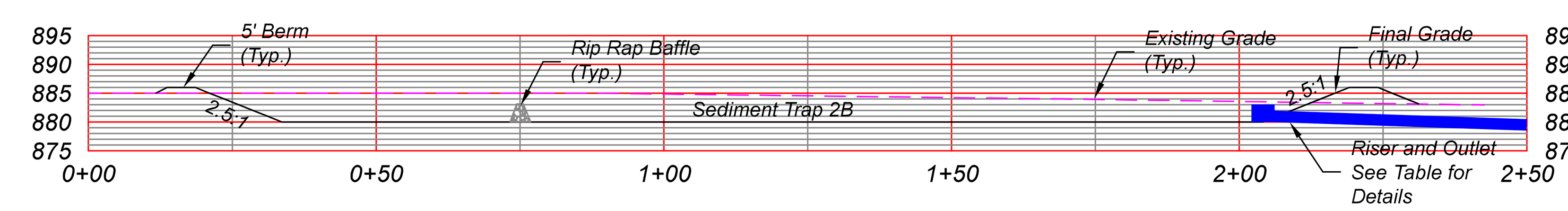
Sediment Trap 3a Data	
Dranage Area (Acres)	1.37
Storage Required (CF)	4932
Full Capacity (CF) Crest Spillway	16478
Berm Elevation	886
Crest Spillway	884.5
Bottom Elevation	880
Interior Slopes	2.5:1
Exterior Slope	2.5:1
Max Berm Height	2'
Berm Thickness	5'
Bottom Dimensions	79' by 29'
Top Dimensions	108' by 58'
Spillway Dimension	Trapazoidal 15' base w/ 2.5:1 Sides
Spillway Flow w/ 1' Freeboard	22.1 cfs (5.09 cfs Req)
Dewatering Time	48 hours

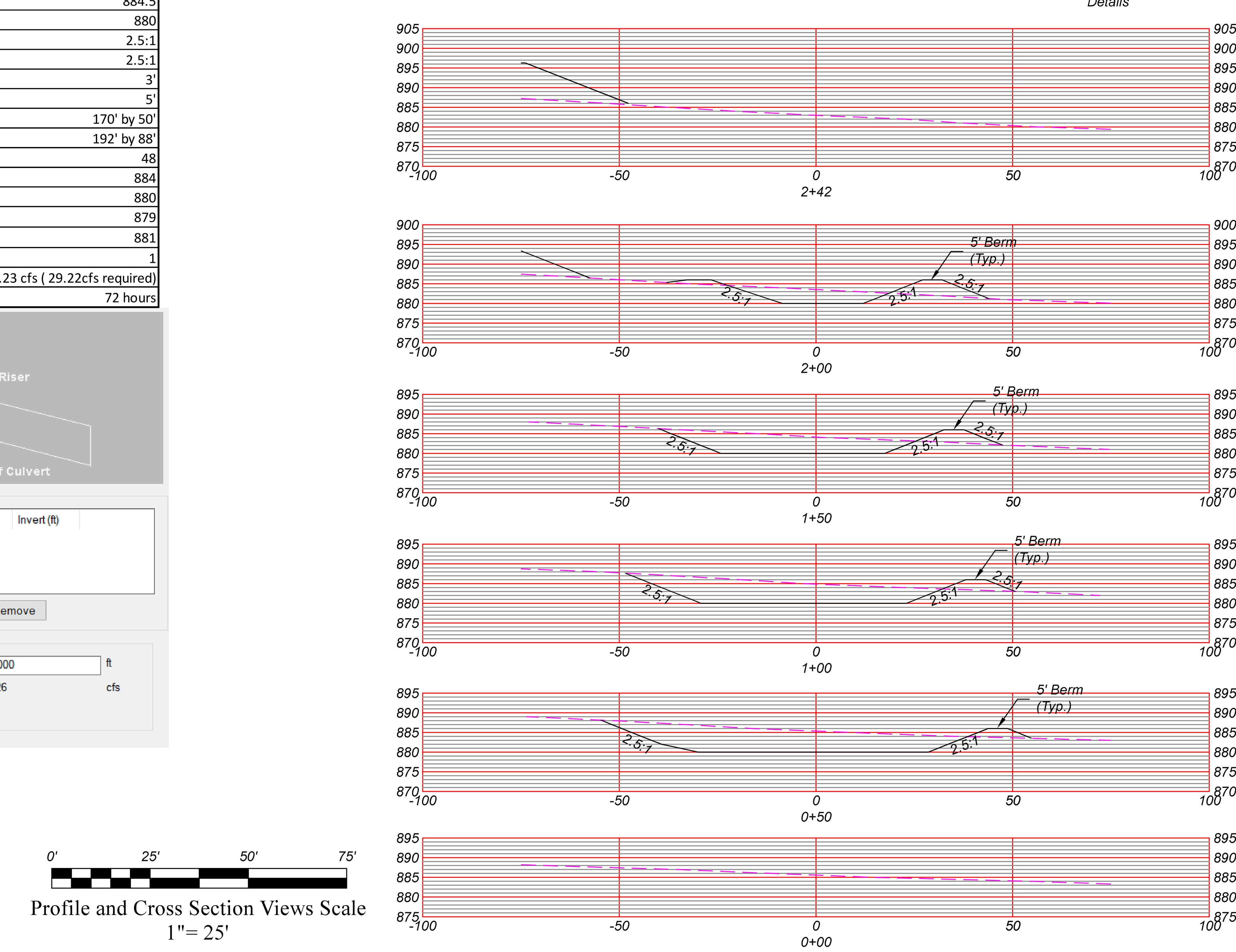
INLET AND OUTLET PROTECTION
FOR CULVERTS AND DIVERSION DITCHES
D50 STONE SIZE=0.5'
MAX STONE DIAMETER=0.75'
APRON LENGTH = 9.0'
APRON WIDTH UPSTREAM=3.75'
APRON WIDTH DOWNSTREAM=10.25'
STONE DEPTH = 1.68'

See Sheet 10 for Riser Schematics and Skimmer Details

Sediment Basin 2b Data	
Dranage Area (Acres)	9.01
Storage Required (CF)	32436
Full Capacity (CF) Top of Riser	36284
Berm Elevation	886
25 yr Storm Elev	884.5
Bottom Elevation	880
Interior Slopes	2.5:1
Exterior Slope	2.5:1
Max Berm Height	3'
Berm Thickness	5'
Bottom Dimensions	170' by 50'
Top Dimensions	192' by 88'
Riser Dimension (Inches)	48
Riser Top Elevation	884
Riser Invert Elevation	880
24" Riser Culvert Outlet Invert	879
Orifice Elevation	881
Orifice Diameter (Inches)	1
Riser Flow with 1' Freeboard	38.23 cfs (29.22cfs required)
Dewatering Time	72 hours







Legend

Existing 1' Contour	Proposed Rock Check Dam
Existing 5' Contour	Proposed Culvert W/ Inlet & Outlet Protection
Existing Tree Line	Proposed Straw Wattles (SW)
Existing Utility Line / Pole	Proposed Silt Soxx w/ Diameter (SSXX)
Surface Owner Property Line	Proposed 1' Road Contour
Limits of Disturbance (LOD)	Proposed 5' Road Contour
Proposed Diversion Ditch	Proposed Rip-Rap
Proposed 1' Contour	* Silt Soxx Diameter in Inches
Proposed 5' Contour	* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.
Proposed Super Silt Fence (SF)	

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MOOREFIELD DISTRICT
HARDY COUNTY, WV

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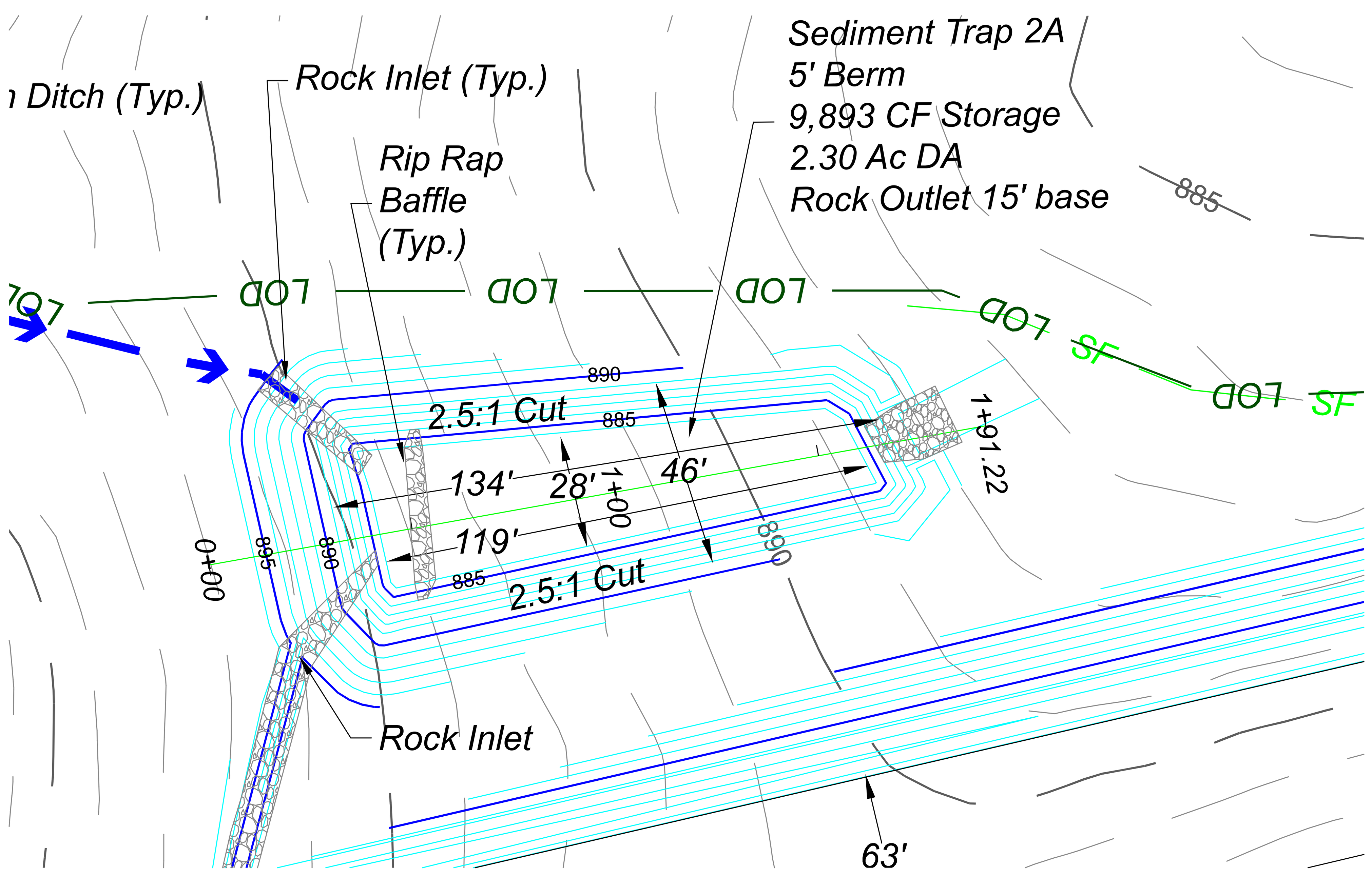
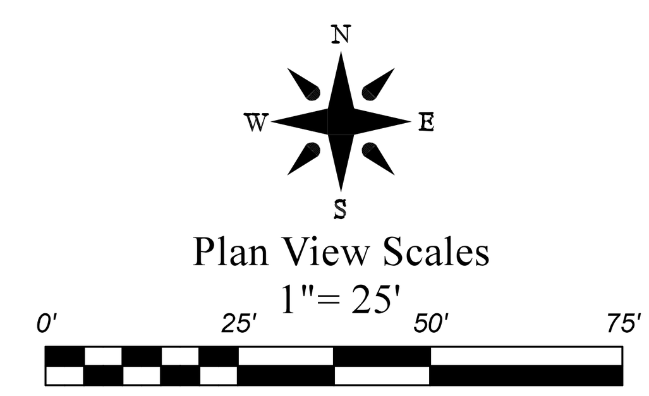
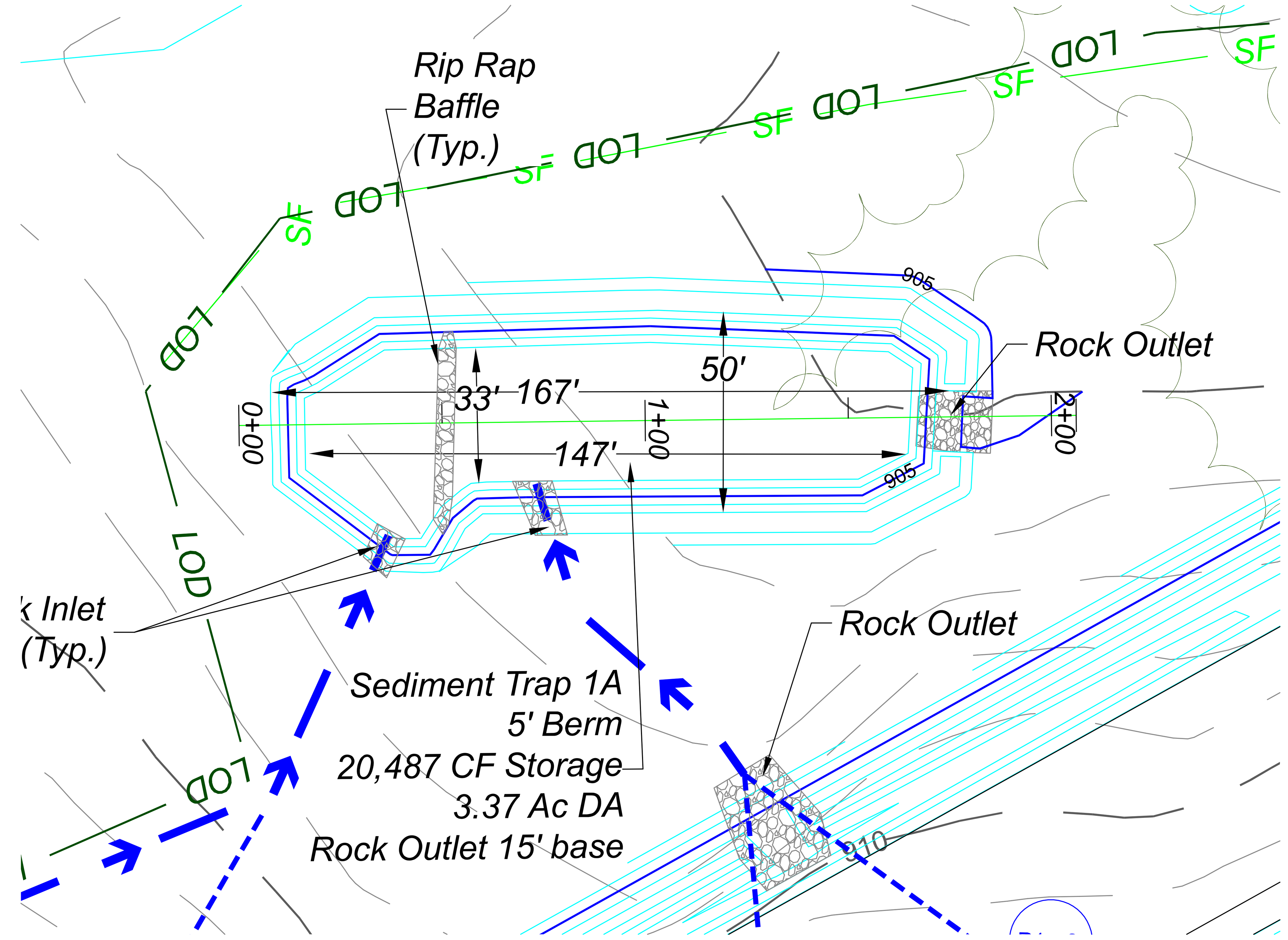
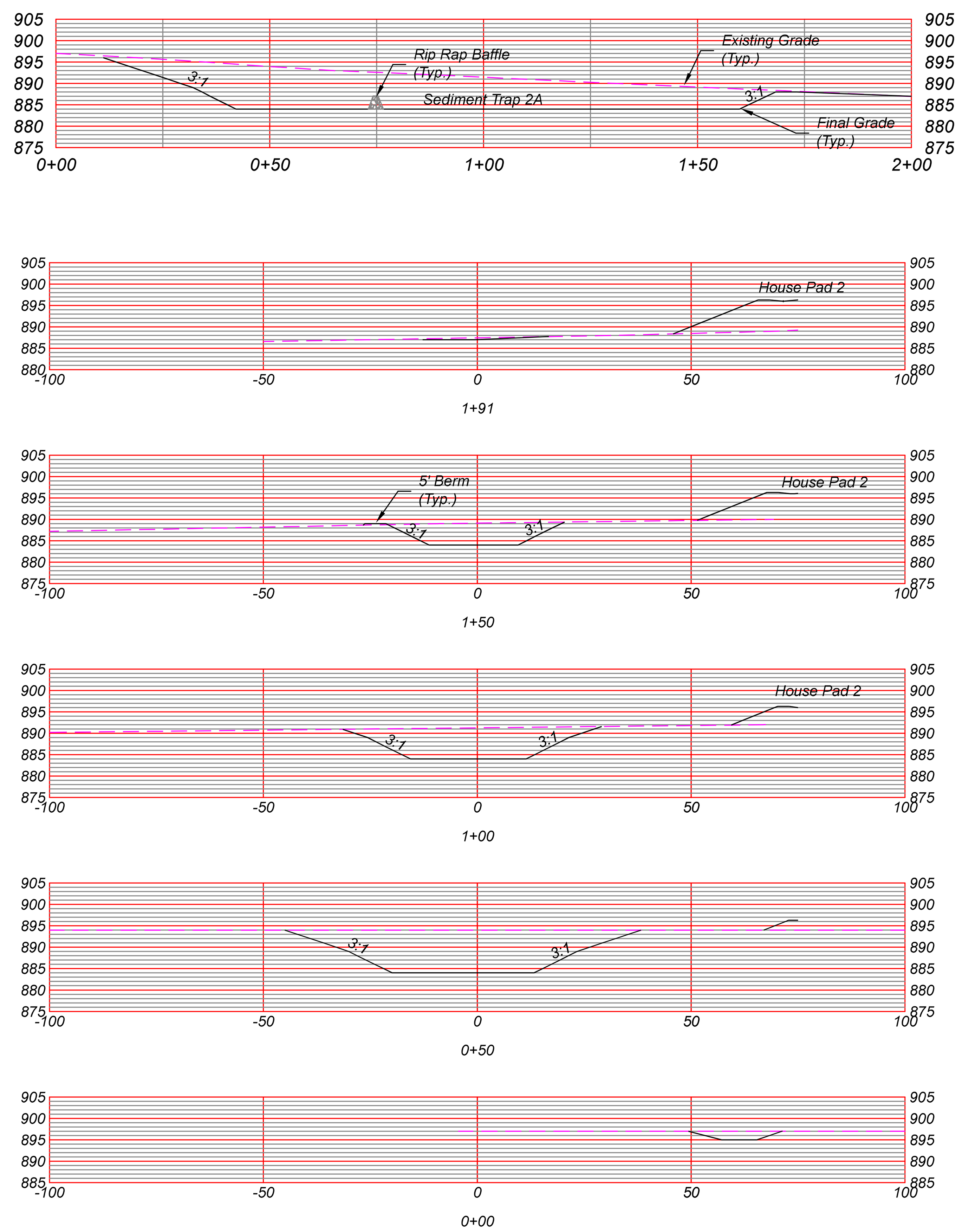
File No. WVPPII_1-20

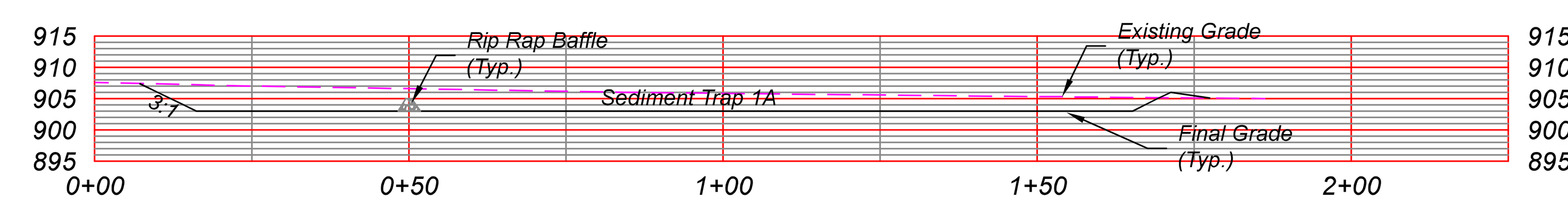
SEDIMENT TRAPS 2A AND 1A





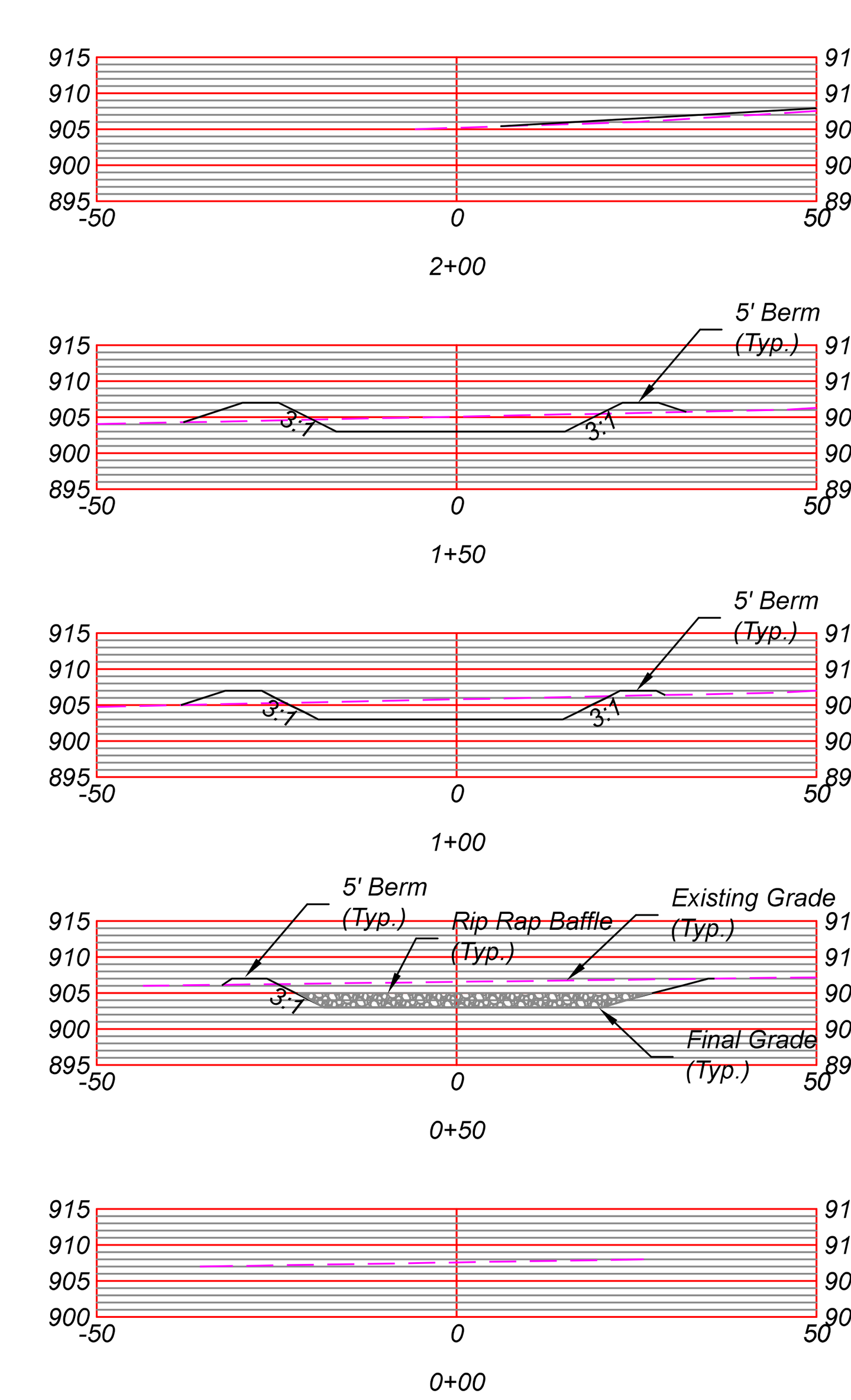






Sediment Trap 2a Data	
Dranage Area (Acres)	2.3
Storage Required (CF)	8280
Full Capacity (CF) Crest Spillway	9893
Berm Elevation	889
Crest Spillway	888
Bottom Elevation	884
Interior Slopes	3:1
Exterior Slope	2:1
Max Berm Height	2
Berm Thickness at Top	5
Bottom Dimensions	119' by 28'
Top Dimensions	134' by 46'
Spillway Dimension	Trapazoidal 15' base w/ 2.5:1 Sides
Spillway Flow w/ 1' Freeboard	22.1 cfs (10.41 cfs Req)
Dewatering Time	48 hours

Sediment Trap 1a Data	
Dranage Area (Acres)	3.37
Storage Required (CF)	12132
Full Capacity (CF) Crest Spillway	20487
Berm Elevation	907
Crest Spillway	906
Bottom Elevation	903
Interior Slopes	3:1
Exterior Slope	2:1
Max Berm Height	3
Berm Thickness at Top	5
Bottom Dimensions	147' by 33'
Top Dimensions	167' by 50'
Spillway Dimension	Trapazoidal 15' base w/ 2.5:1 Sides
Spillway Flow w/ 1' Freeboard	22.1 cfs (16.6 cfs Req)
Dewatering Time	48 hours



Profile and Cross Section Views Scale
1"= 25'

INLET AND OUTLET PROTECTION
FOR CULVERTS AND DIVERSION DITCHES
D50 STONE SIZE=0.5'
MAX STONE DIAMETER=0.75'
APRON LENGTH = 9.0'
APRON WIDTH UPSTREAM=3.75'
APRON WIDTH DOWNSTREAM=10.25'
STONE DEPTH = 1.68'

Legend

Existing 1' Contour	Proposed Rock Check Dam
Existing 5' Contour	Proposed Culvert W/ Inlet & Outlet Protection
Existing Tree Line	Proposed Straw Wattles (SW)
Existing Utility Line / Pole	Proposed Silt Soxx w/ Diameter (SSXX)
Surface Owner Property Line	Proposed 1' Road Contour
Limits of Disturbance (LOD)	Proposed 5' Road Contour
Proposed Diversion Ditch	Proposed Rip-Rap
Proposed 1' Contour	* Silt Soxx Diameter in Inches
Proposed 5' Contour	* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.
Proposed Super Silt Fence (SF)	

Profile and Cross Section Views Scale
1"= 25'

REVISIONS

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SEDIMENT TRAPS 2A AND 1A
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
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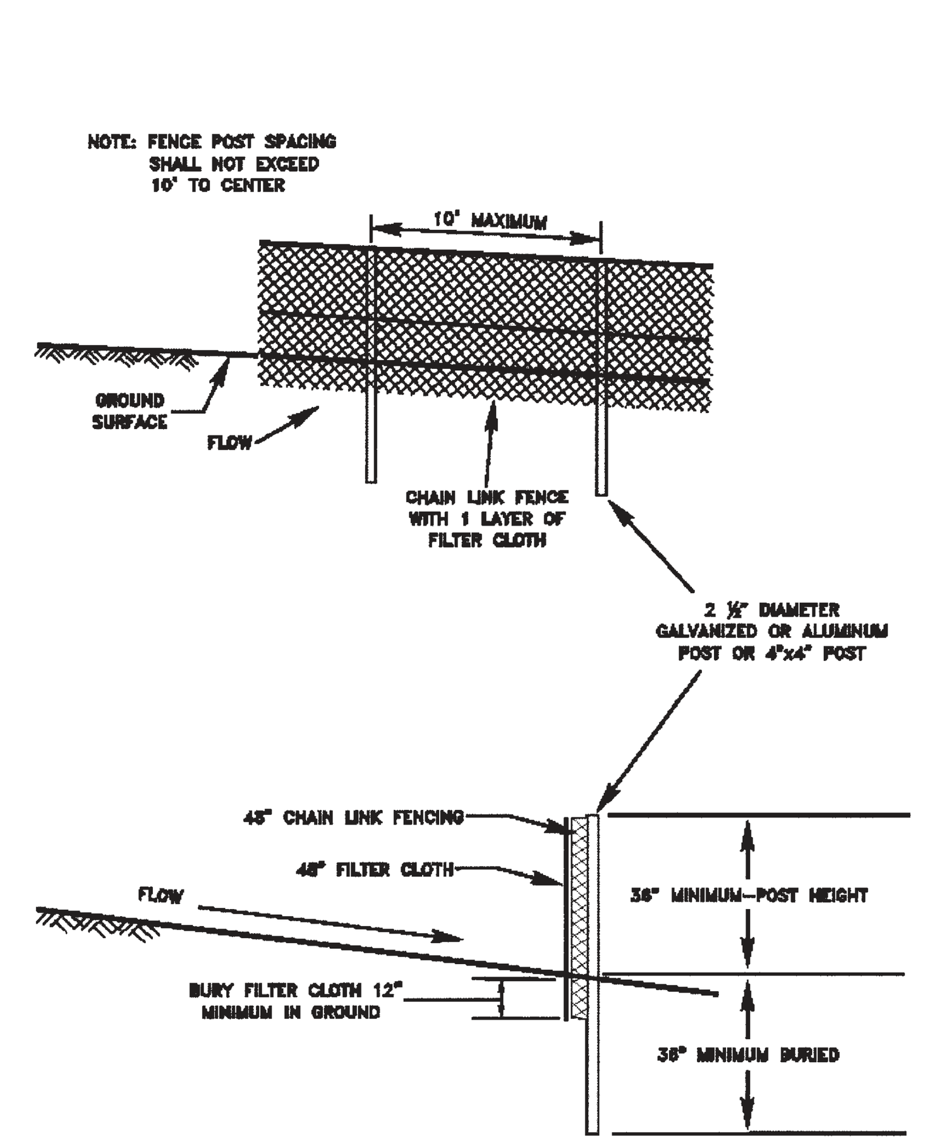
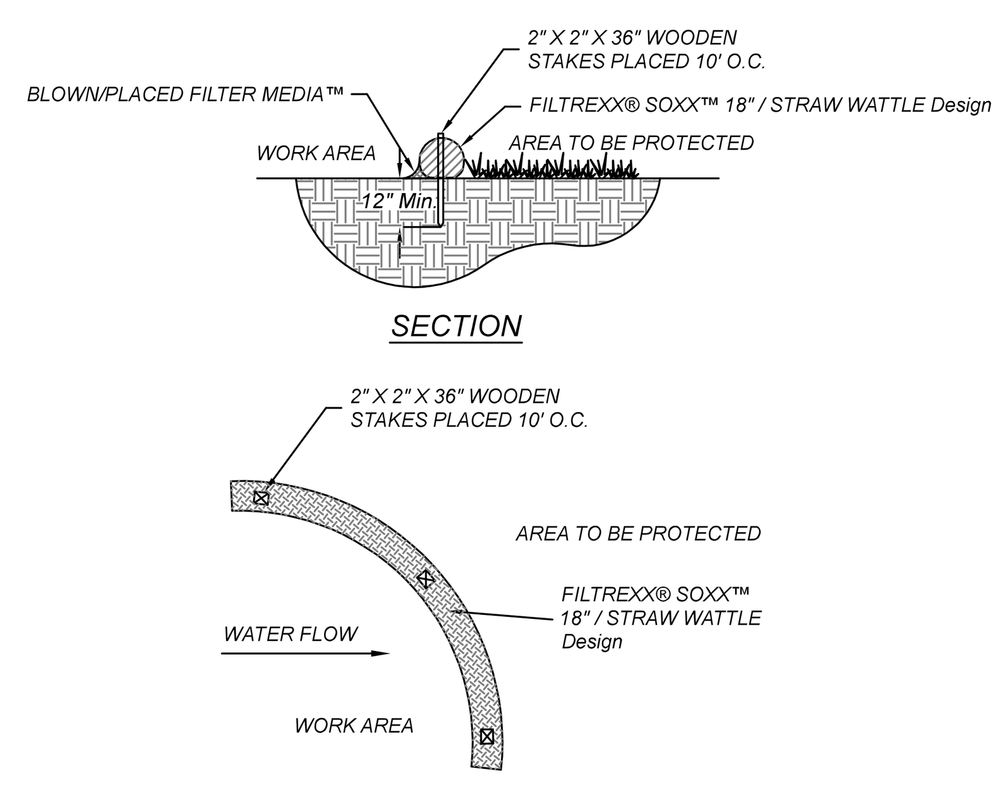
EROSION AND SEDIMENT CONTROL DETAILS

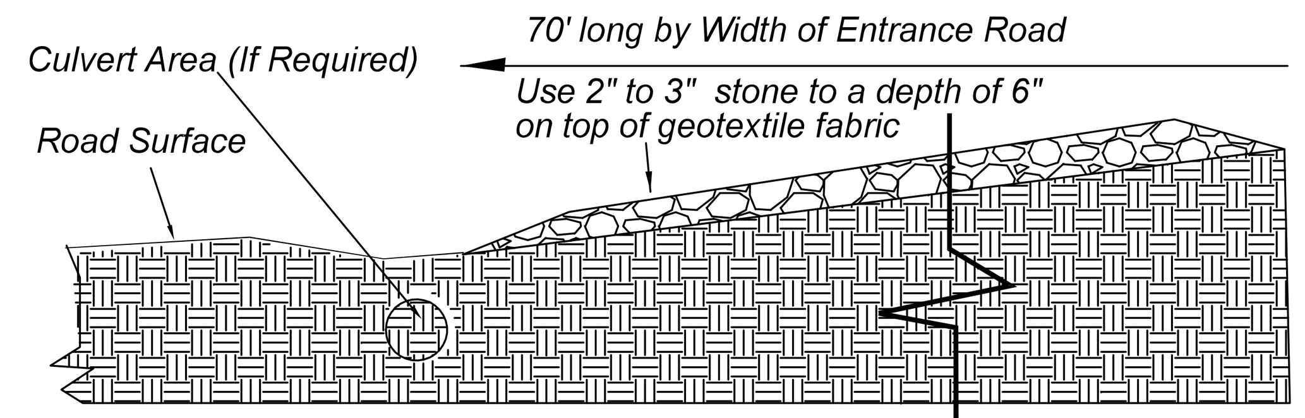
SUPER SILT FENCE


NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' TO CENTER
10' MAXIMUM
GROUND SURFACE
FLOW
CHAIN LINK FENCE WITH 1 LAYER OF FILTER CLOTH
2 ½" DIAMETER GALVANIZED OR ALUMINUM POST OR 4"x4" POST
48" CHAIN LINK FENCING
48" FILTER CLOTH
FLOW
36" MINIMUM—POST HEIGHT
BURY FILTER CLOTH 12" MINIMUM IN GROUND
36" MINIMUM BURIED

FILTREXX "SOXX" 18" FILTER SOCK AND STRAW WATTLE DETAIL NTS

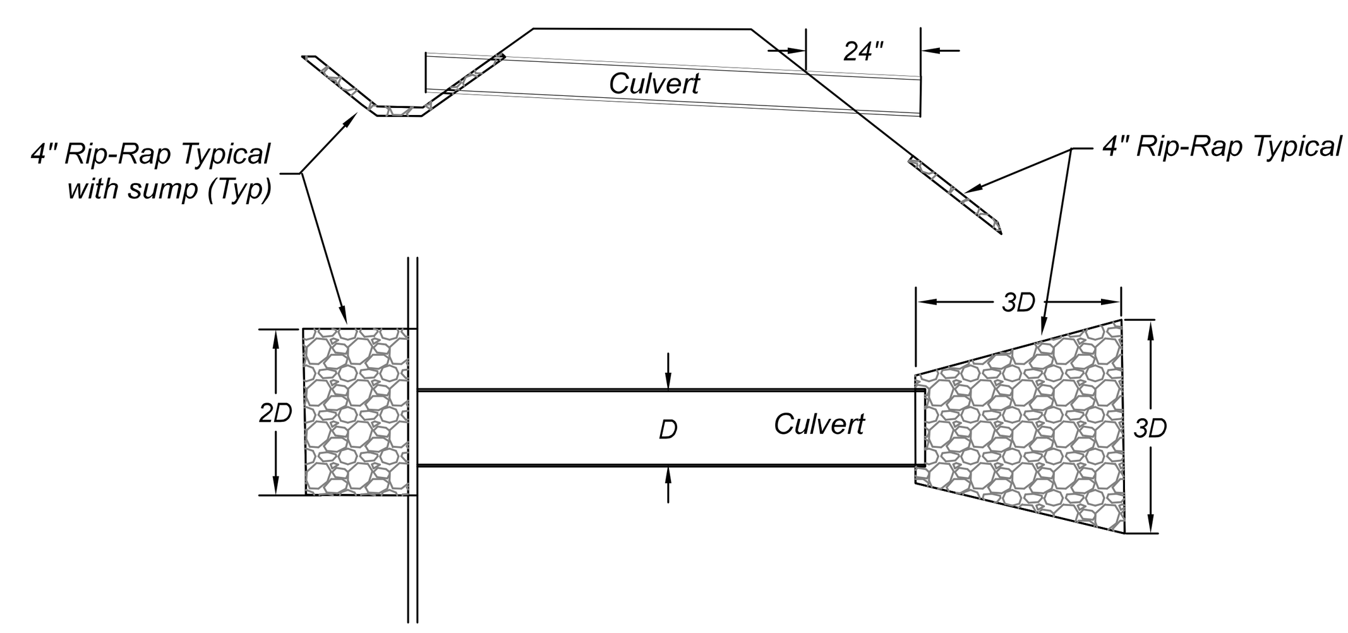

2" X 2" X 36" WOODEN STAKES PLACED 10' O.C.
BLOWN/PLACED FILTER MEDIA™
FILTREXX® SOXX™ 18" / STRAW WATTLE Design
WORK AREA
AREA TO BE PROTECTED
12" Min
SECTION
2" X 2" X 36" WOODEN STAKES PLACED 10' O.C.
AREA TO BE PROTECTED
FILTREXX® SOXX™ 18" / STRAW WATTLE Design
WATER FLOW
WORK AREA
PLAN

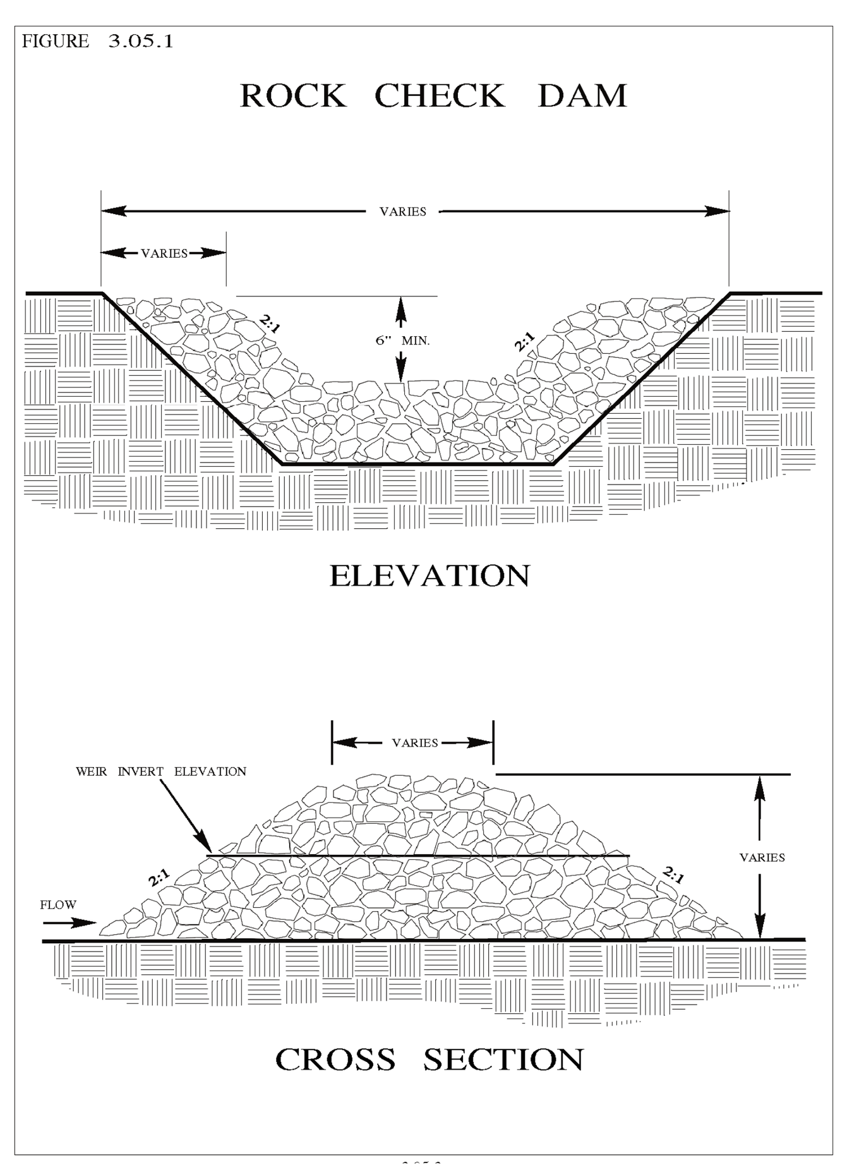
NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.

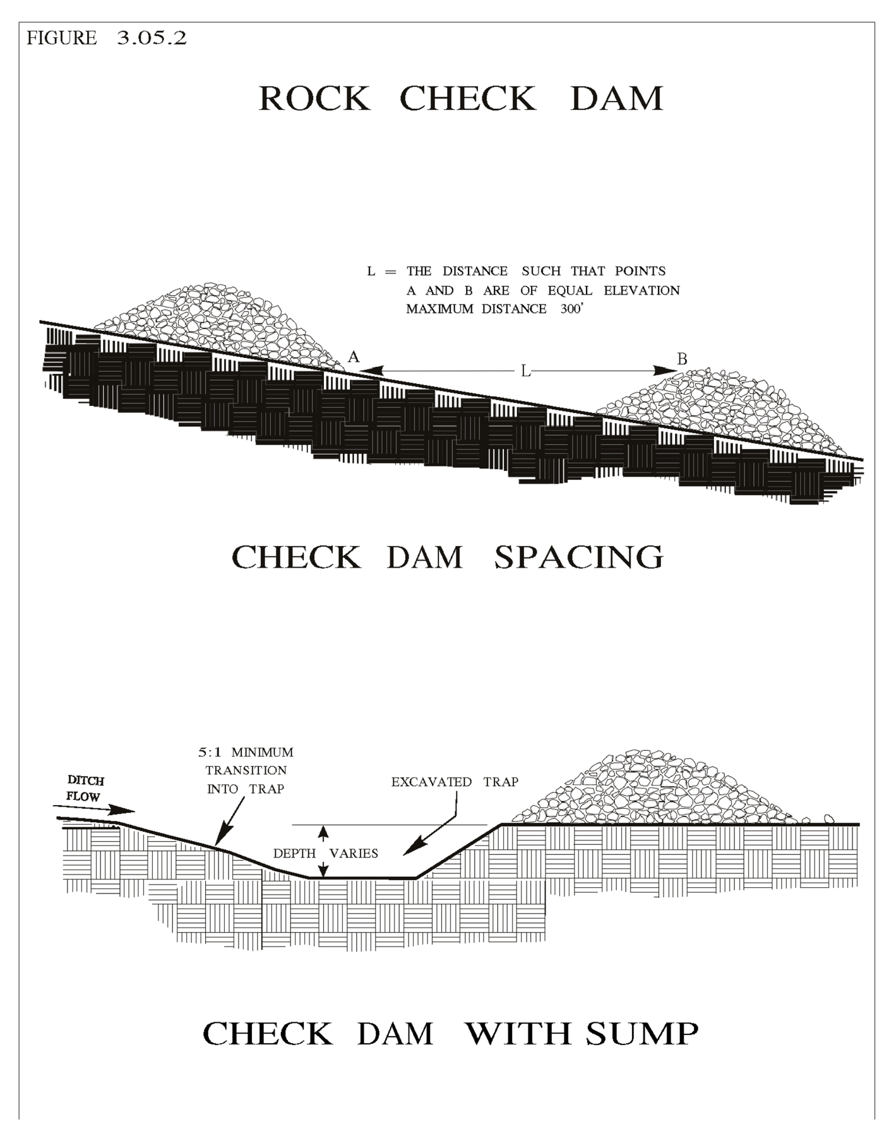


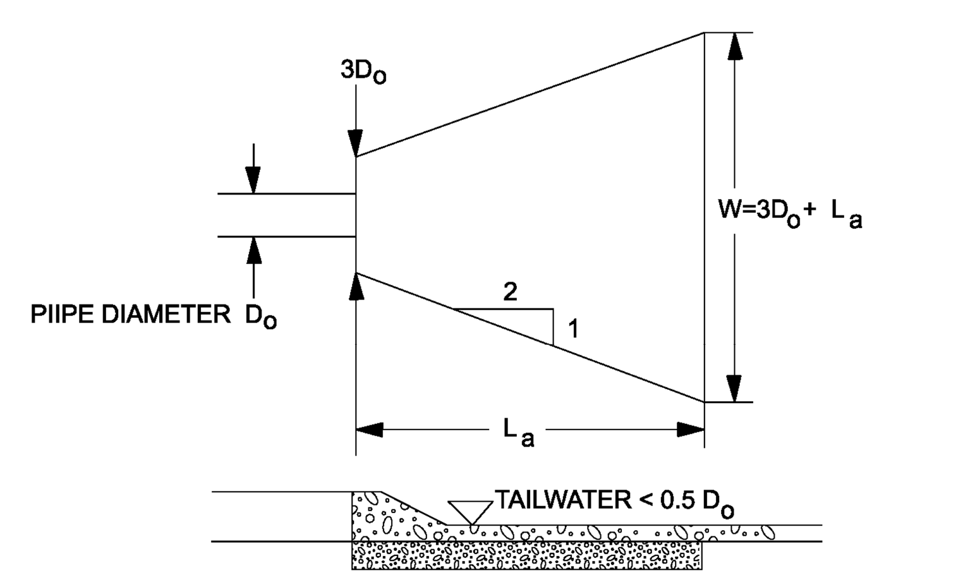
Stabilized Construction Entrance
NTS

TYPICAL CULVERT & CULVERT INLET AND OUTLET PROTECTION DETAIL NTS



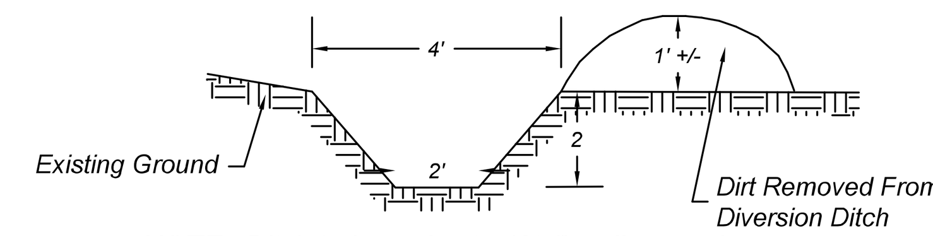






RIP RAP ARPRON OUTLET PROTECTION MINIMUM TAILWATER CONDITION

DIVERSION DITCH DETAIL NTS



NOTE: Ditch to have 0.5 to 1% flow line grade. Line with TRM and Install Check Dams

Diversion Ditch Design (Non-Erodible)

Channel Type: Trapezoidal, Equal Side Slopes
Dimensions: Left Side Slope 1.00:1
Right Side Slope 1.00:1
Base Dimension: 2.00

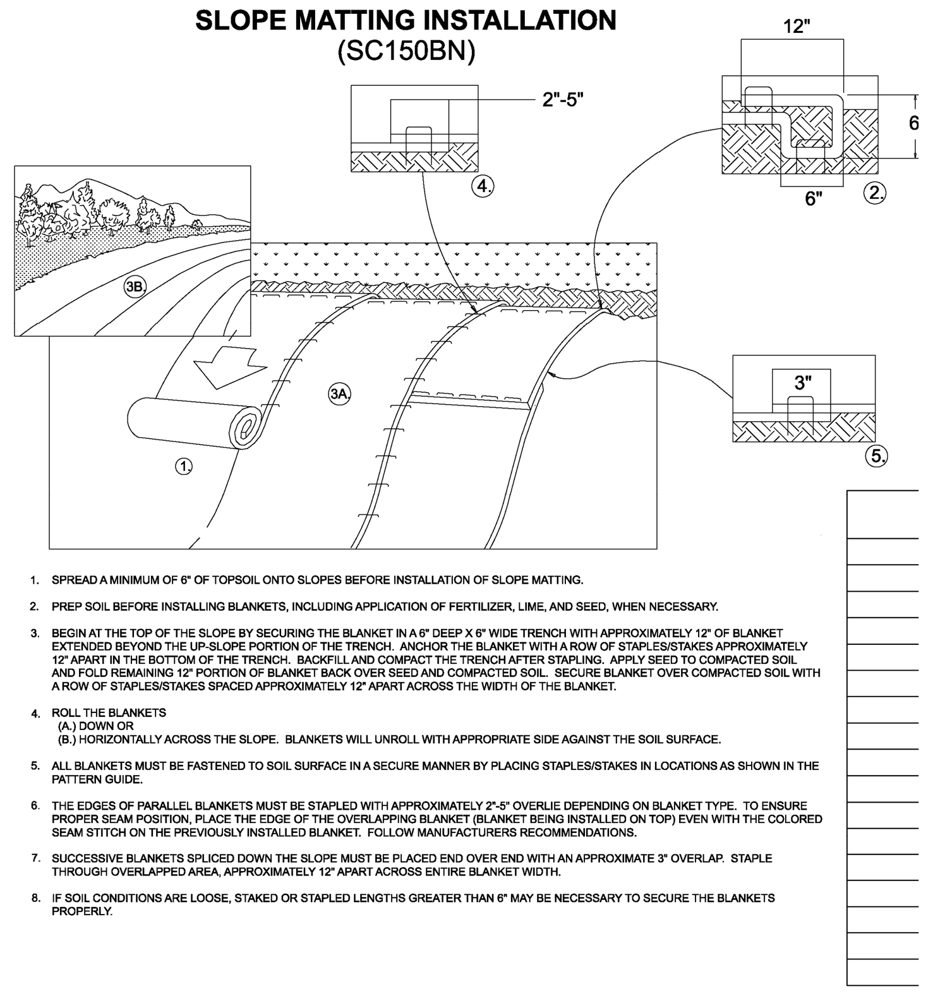
Wetted Perimeter: 7.66
Area of Wetted Cross Section: 8.00

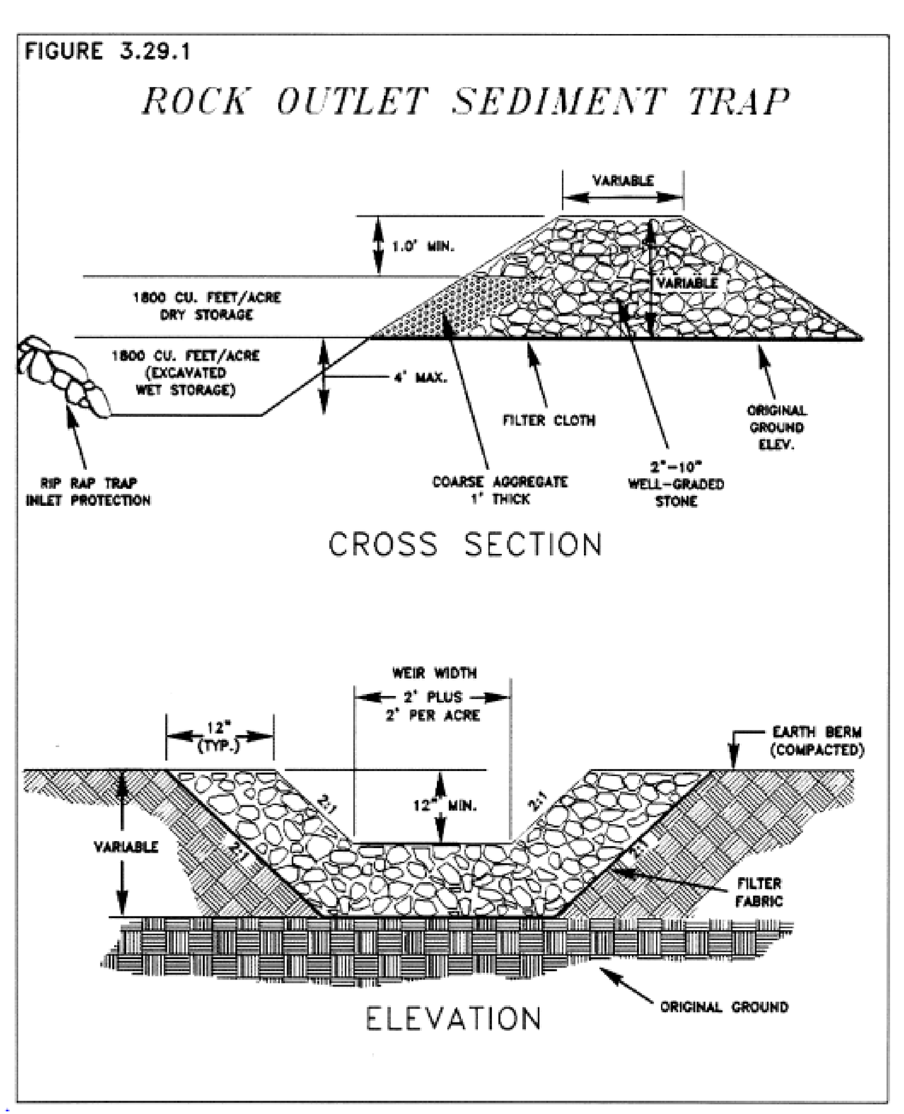
Channel Slope: 1.0000
Manning's n of Channel: 0.0356

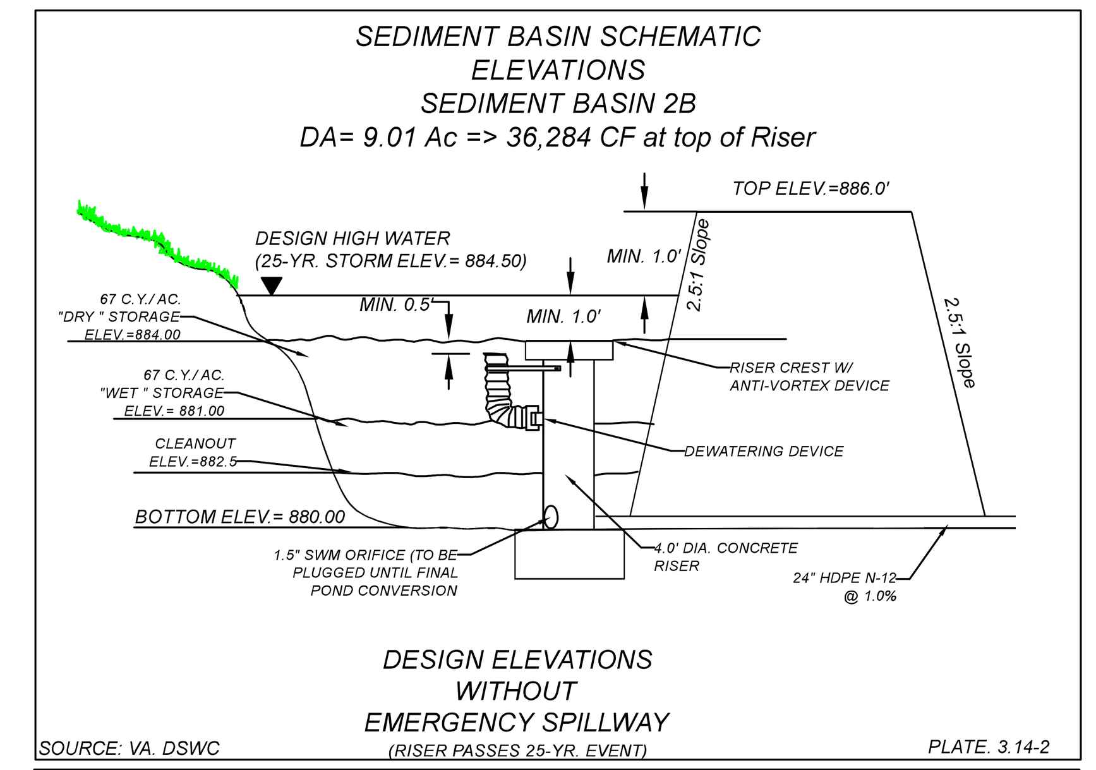
Discharge: 34.38 cfs
Depth of Flow: 2.00 feet
Velocity: 4.30 fps

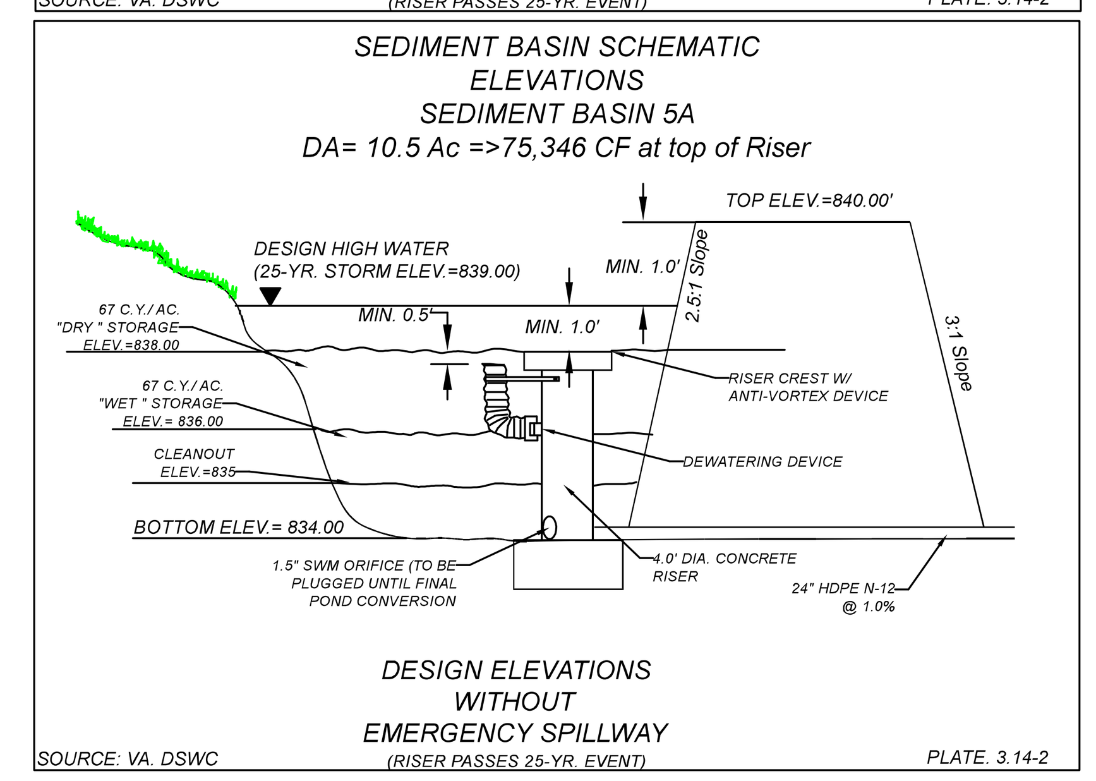
Channel Lining: 6 inch Rock Rip-Rap
Freeboard: 1.00 feet

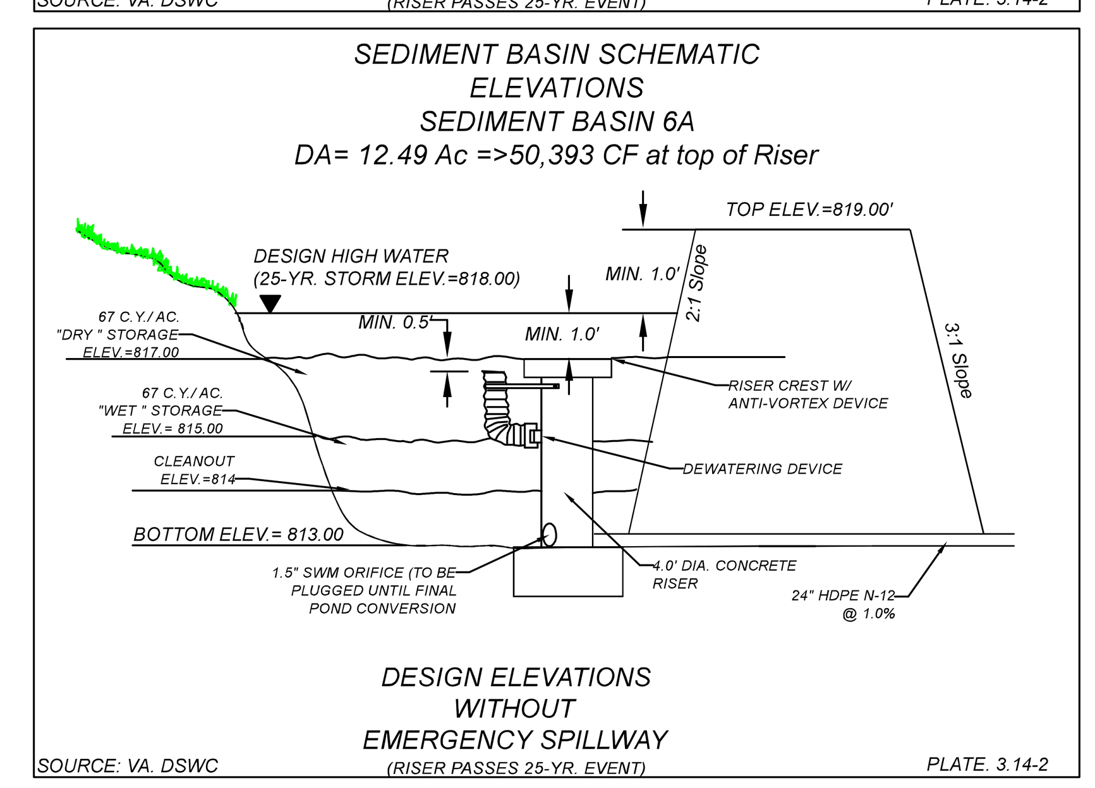
SLOPE MATTING INSTALLATION (SC150BN)

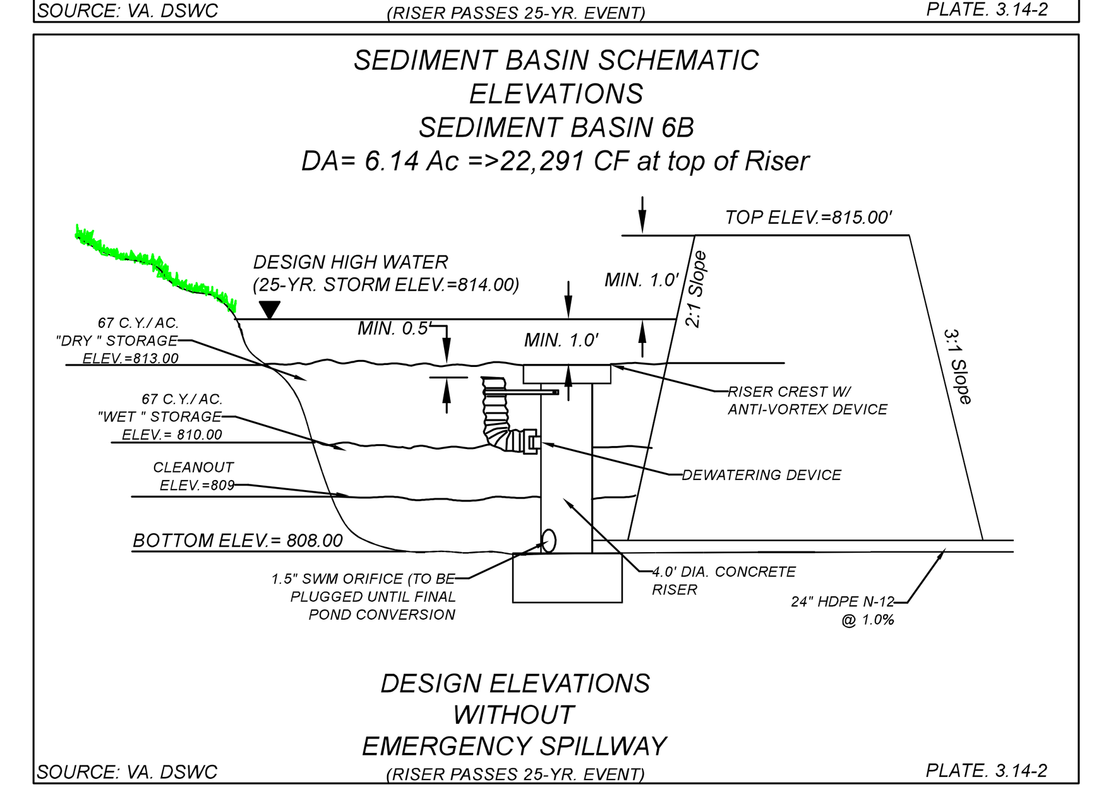


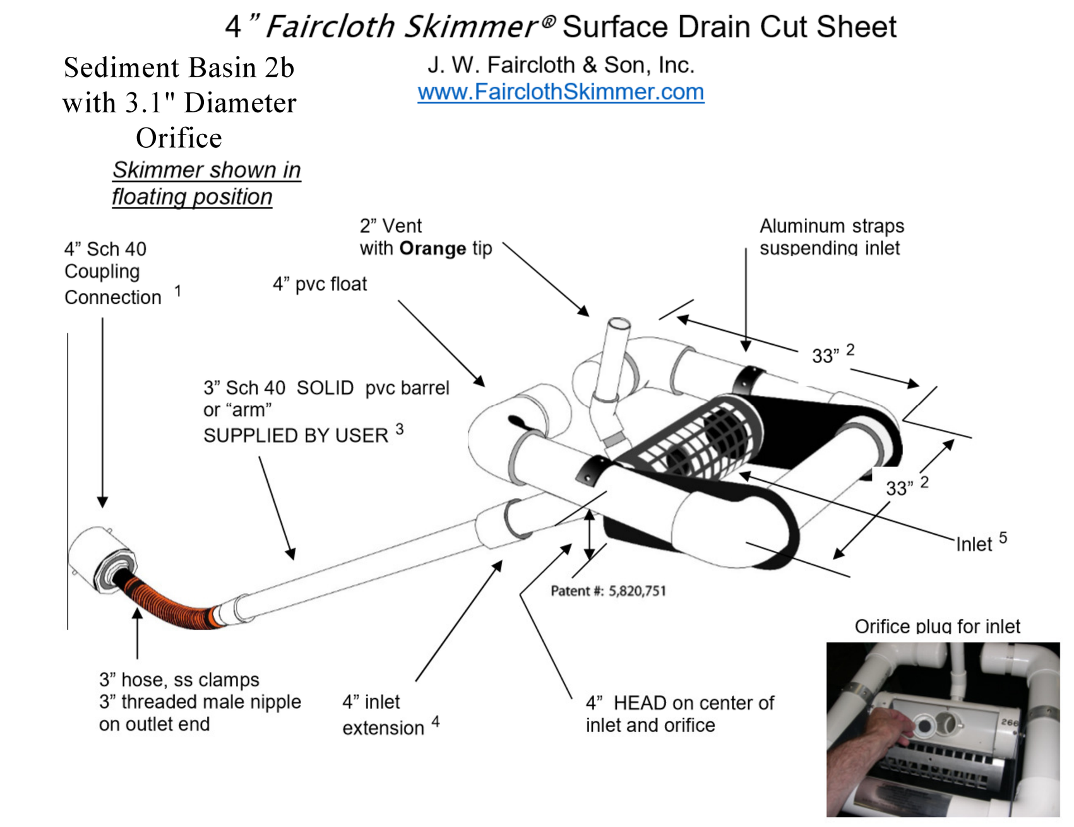


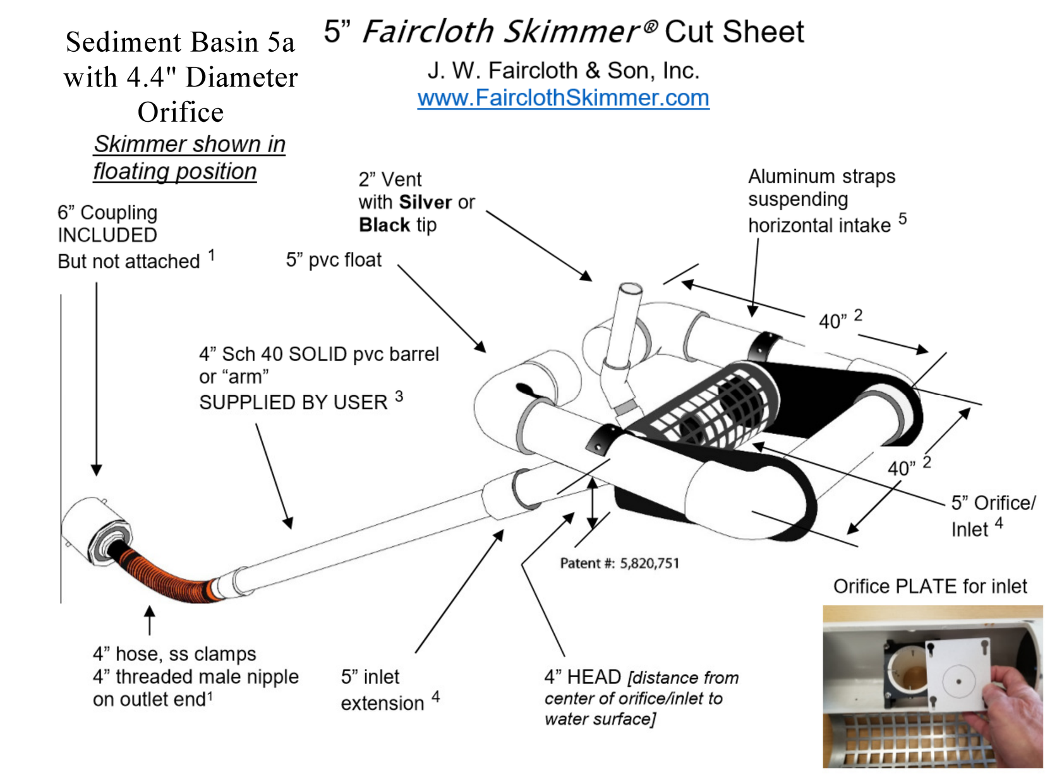


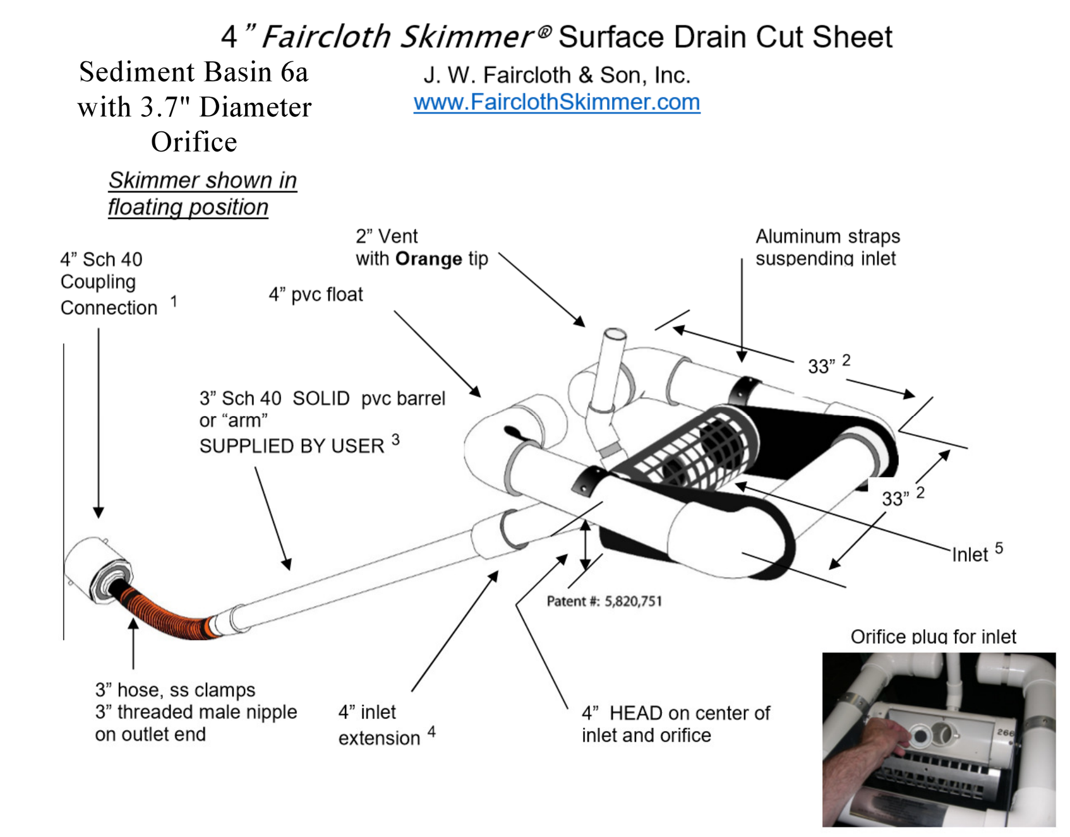


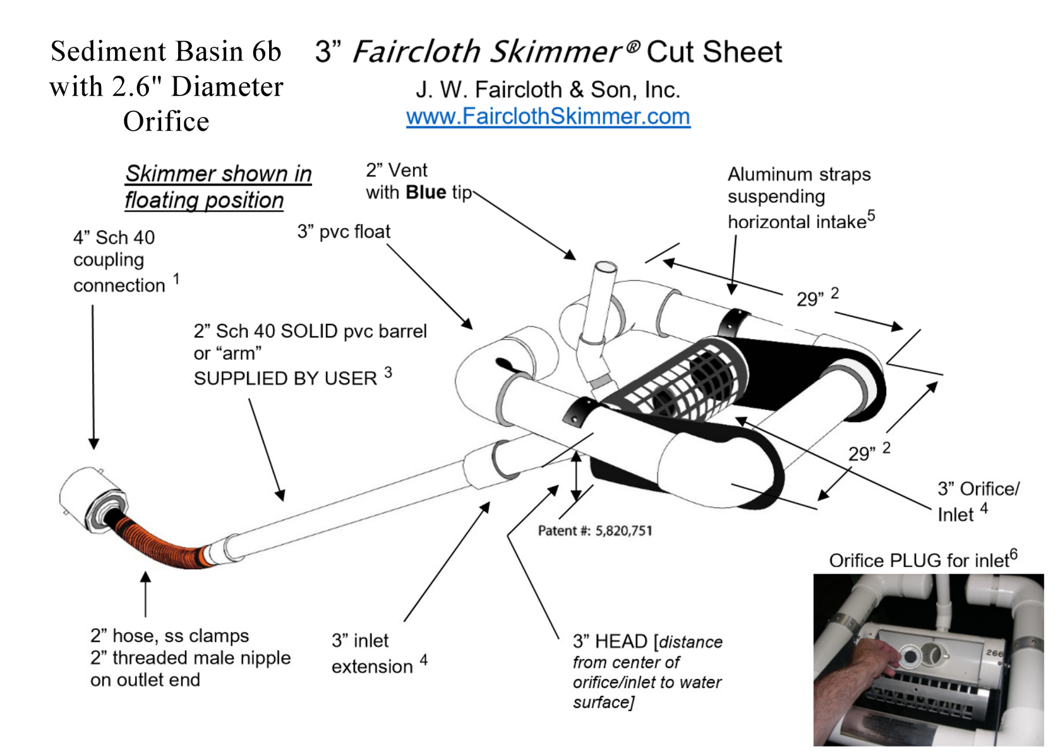












Sediment Basin	Riser			Culvert				Discharge (cfs)	
	Rim (ft)	Invert (ft)	Size (In)	Inlet (ft)	Outlet (ft)	Size (in)	Length	25yr Req	Capacity
Riser for Sed Basin 2b	833	880	48	880	878	24	155	29.22	38.23
Riser for Sed Basin 5a	838	835	48	835	830	24	60	30.1	41.85
Riser for Sed Basin 6a	817	814	48	814	812	24	65	44.39	50.12
Riser for Sed Basin 6b	813	808	48	808	807.5	24	95	24.94	41.85

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HARDY COUNTY, WV

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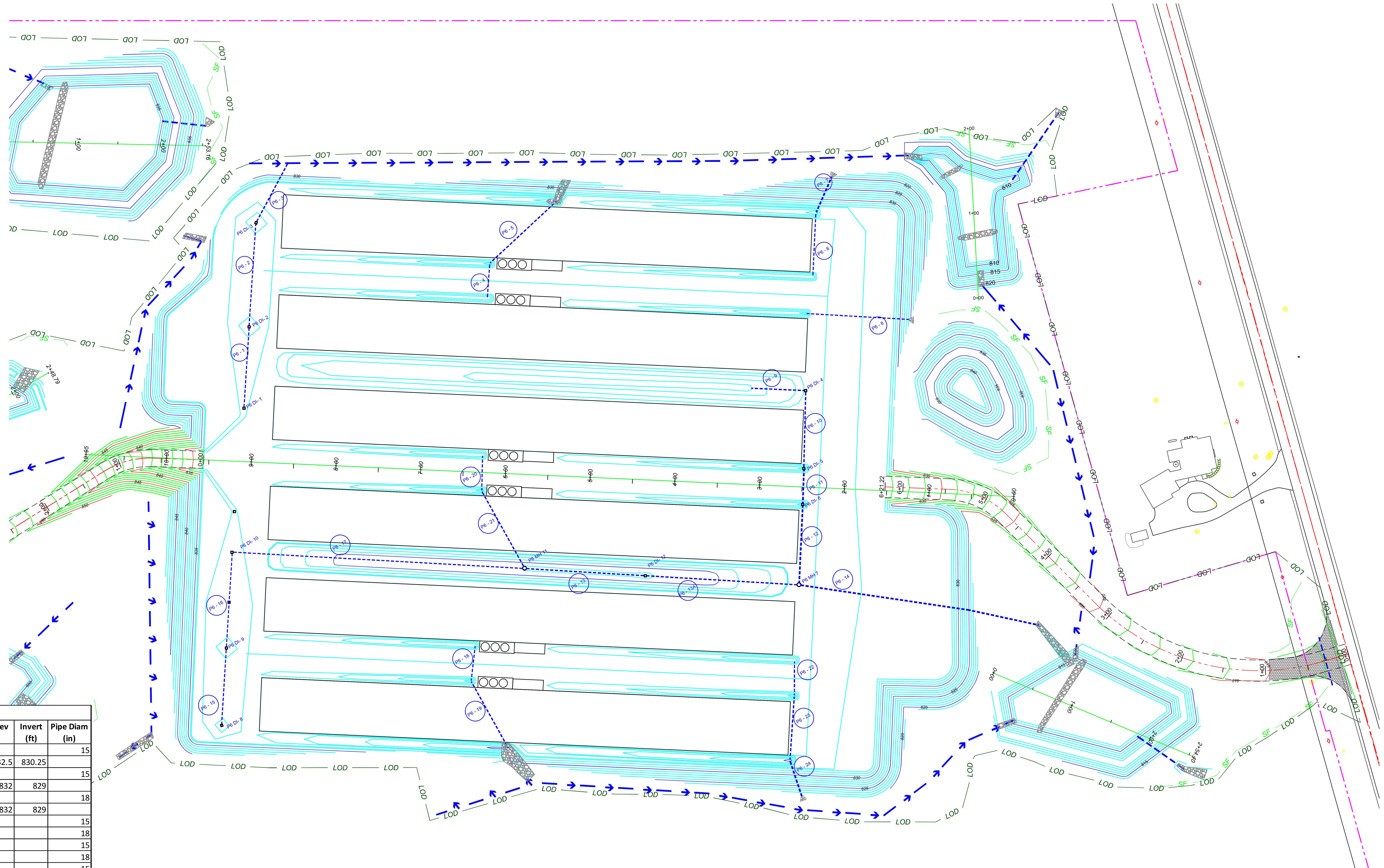
File No. WVPPII_1-20

PAD 6 STORM WATER PIPE AND DRAINAGE STRUCTURES



Culvert, Drop Inlets and Manhole Schedule							
Culvert, Drop Inlet (DI) or Manhole (MH)	Inlet Invert (ft)	Outlet Invert (ft)	Length of Pipe (ft)	Slope of Pipe %	Rim Elev (ft)	Invert (ft)	Pipe Diam (in)
P6 - 1	830.75	830.25	95	0.53%			15
P6 DI - 1					832.5	830.25	
P6 - 2	830.25	829	122	1.02%			15
P6 DI - 2					832	829	
P6 - 3	829	828	80	1.25%			18
P6 DI - 3					832	829	
P6 - 4	832	831	40	2.50%			15
P6 - 5	831	830	108	0.93%			18
P6 - 6	832	831	75	1.33%			15
P6 - 7	831	819	50	24.00%			18
P6 - 8	831	826	120	4.17%			15
P6 - 9	831	830	65	1.54%			18
P6 DI - 4					833.5	830	
P6 - 10	830	829	90	1.11%			18
P6 DI - 5					831	828.5	
P6 - 11	828.5	828	40	1.25%			24
P6 DI - 6					831	828	
P6 - 12	828	827	100	1.00%			24
P6 MH - 7					833.5	822	
P6 - 13	825	823.7	140	0.93%			24
P6 DI -10					828	823.7	
P6 - 13A	823.7	822	185	0.92%			24
P6 - 14	822	818	290	1.38%			24
P6 DI - 8					832.5	830.75	
P6 - 15	830.75	829.75	90	1.11%			15
P6 DI - 9					832	829.75	
P6 - 16	829.75	828.5	110	1.14%			15
P6 DI -10					832	828.5	
P6 - 17	828.5	825	345	1.01%			24
P6 MH - 11					829	825	
P6 - 18	832	831	45	2.22%			15
P6 - 19	831	830	90	1.11%			18
P6 - 20	832	831	40	2.50%			15
P6 - 21	831	829	100	2.00%			18
P6 - 22	832	831	40	2.50%			15
P6 - 23	831	830	75	1.33%			18
P6 - 24	830	822	45	17.78%			24

NOTES:
1. *All culverts shall be ADS N-12 WT double wall pipe with bell and hub connections or equal.*
2. *Sediment Basin Risers shall be standard pre-cast concrete 48" manhole sections with pre-cast pipe openings and seals are required.*
3. *Pad Drop Inlets may be field cast or pre-cast WV DOH Type G Inlets with Class II grates.*
4. *Pad Manholes shall be pre-cast 48" sewer manholes with ladders and Class II lids.*

REVISIONS

DATE

L&W ENTERPRISES, INC.
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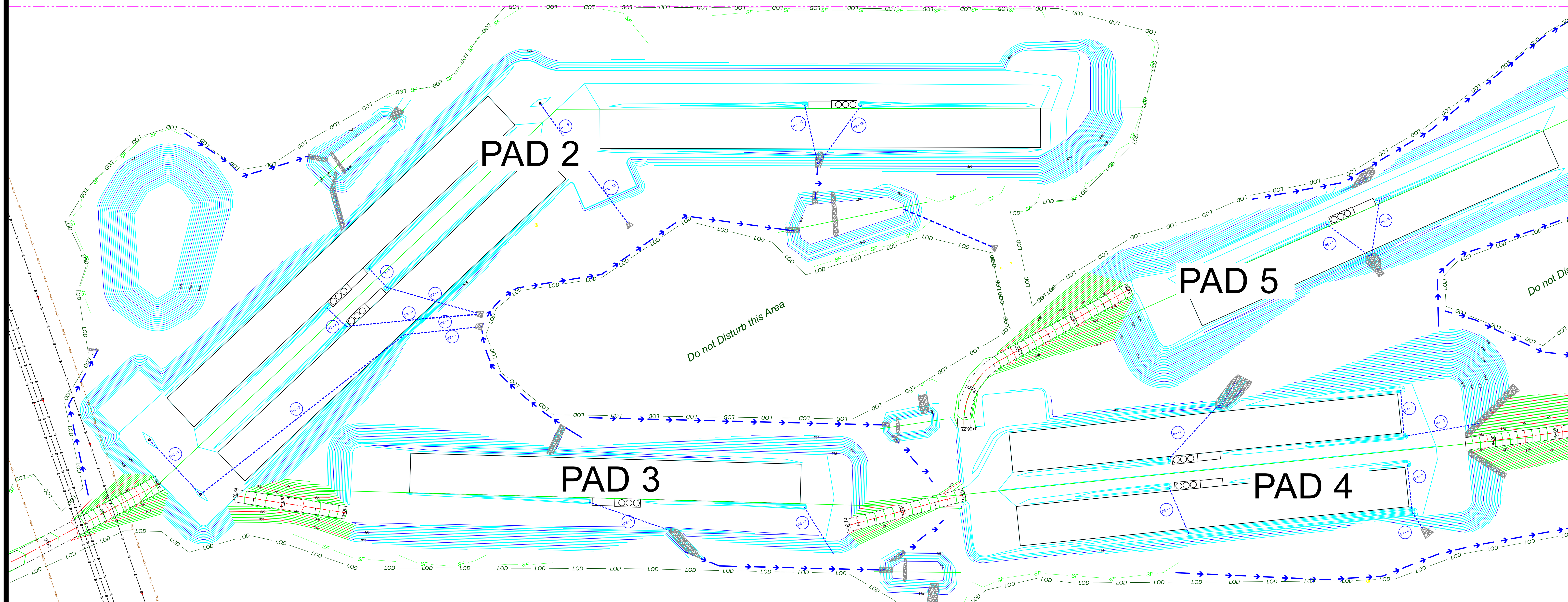
EMAIL: KIRKWILSONLW@OUTLOOK.COM

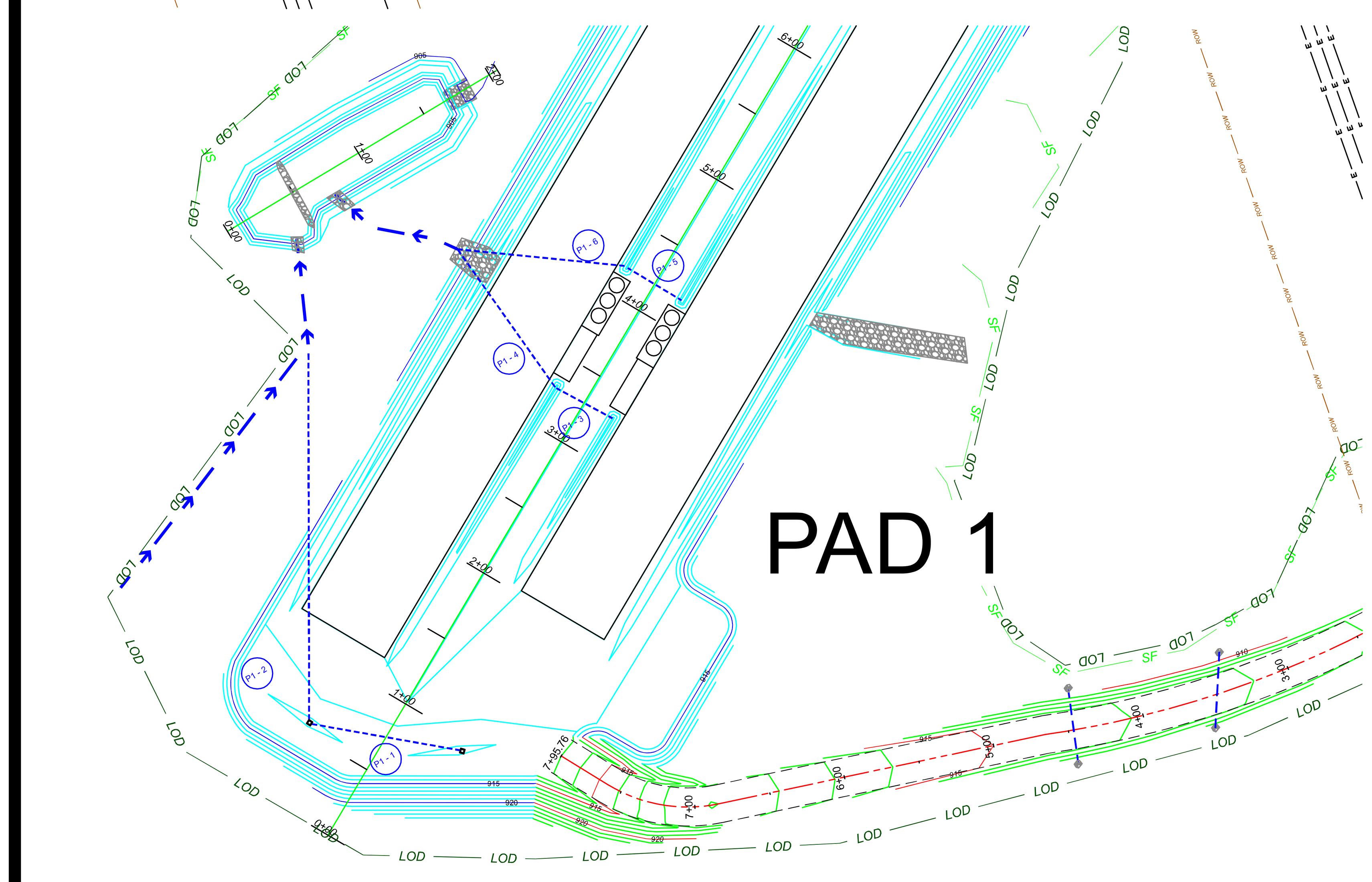
THIS DOCUMENT PREPARED FOR WVPP II LLC

PAD 6 STORM WATER PIPE AND DRAINAGE STRUCTURES
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 70'
Designed By: CKW
File No. WVPPII_1-20

PADS 1-5 STORM WATER PIPE AND DRAINAGE STRUCTURES





Culvert, Drop Inlets and Manhole Schedule

Culvert, Drop Inlet (DI) or Manhole (MH)	Inlet Invert (ft)	Outlet Invert (ft)	Length of Pipe (ft)	Slope of Pipe %	Rim Elev (ft)	Invert (ft)	Pipe Diam (in)
P1-1	910.75	909.5	100	1.25			15
P1 DI - 1					912.5	910.75	
P1-2	909.5	907	240	1.04%			15
P1 DI - 2					912.5	909.5	
P1-3	911.5	911	45	1.11%			15
P1-4	911	908	110	2.73%			15
P1-5	911.5	911	45	1.11%			15
P1-6	911	908	110	2.73%			15
P2 - 1	893.5	892	120	1.25%			15
P2 DI - 1					895.5	893.5	
P2 - 2	892	890	415	0.48%			18
P2 - 3	890	889	145	0.69%			18
P2 - 4	894.5	894	45	1.11%			15
P2 - 5	894	893	120	0.83%			18
P2 - 6	893	891	88	2.27%			24
P2 - 7	894.5	894	45	1.11%			15
P2 - 8	894	891	150	2.00%			18
P2 DI - 2					895.5	893	
P2 - 9	893	892	105	0.95%			18
P2 DI - 3					895.5	892	
P2 - 10	892	890	130	1.54%			18
P2 - 11	894	892	100	2.00%			15
P2 - 12	894	892	116	1.72%			15
P3 - 1	894	892	138	1.45%			15
P3 - 2	894	887	90	7.78%			15
P4 - 1	881	880	85	1.18%			15
P4 - 2	884	879	100	5.00%			15
P4 - 3	881	880	75	1.33%			15
P4 - 4	880	873	120	5.83%			15
P4 - 5	881	879	75	2.67%			15
P4 - 6	879	875	35	11.43%			18
P5 - 1	860	858	90	2.22%			15
P5 - 2	860	858	90	2.22%			15

NOTES:

1. *All culverts shall be ADS N-12 WT double wall pipe with bell and hub connections or equal.*
2. *Sediment Basin Risers shall be standard pre-cast concrete 48" manhole sections with pre-cast pipe openings and seals are required.*
3. *Pad Drop Inlets may be field cast or pre-cast WV DOH Type G Inlets with Class II grates.*
4. *Pad Manholes shall be pre-cast 48" sewer manholes with ladders and Class II lids.*

REVISIONS

DATE

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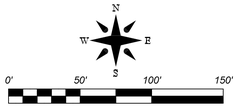
L & W Enterprises Incorporated — Surveying, Engineering, Forestry, Construction

THIS DOCUMENT PREPARED FOR WVPP II LLC

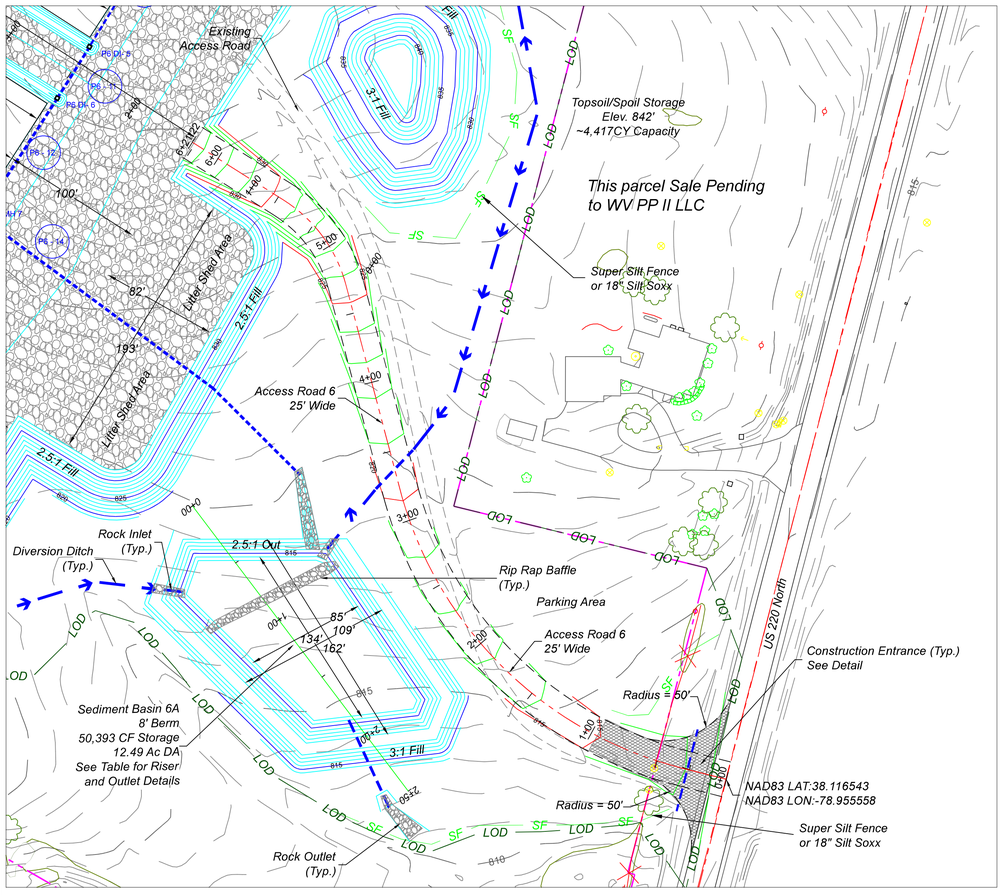
PADS 1-5 STORM WATER PIPE AND DRAINAGE STRUCTURES
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

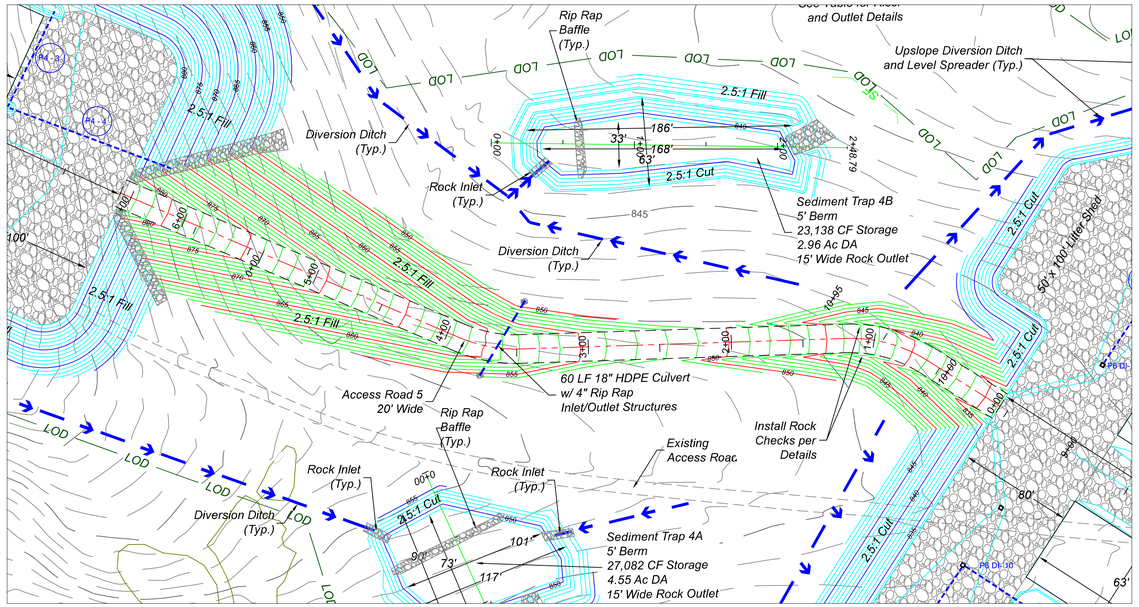
Date: 3/16/20
Scale: 1" = 80'
Designed By: CKW
File No. WVPPII_1-20

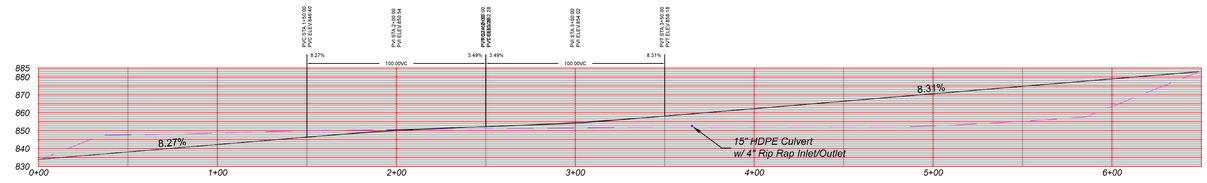
ROAD 6 AND ROAD 5 PLANS AND PROFILES



Plan Views Scale
1"= 50'

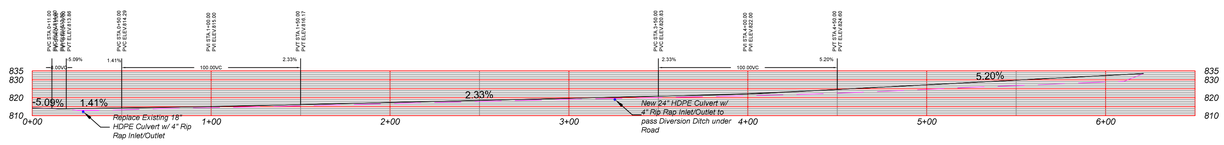






Road 5 Profile
Scale 1"= 40'

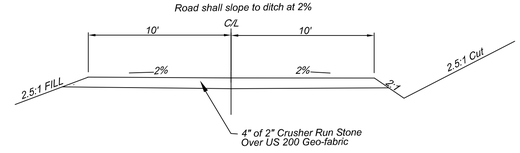
0' 40' 80' 120'



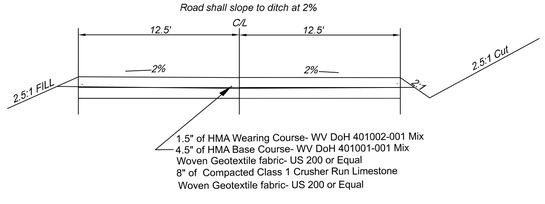
Road 6 Profile
Scale 1"= 40'

0' 40' 80' 120'

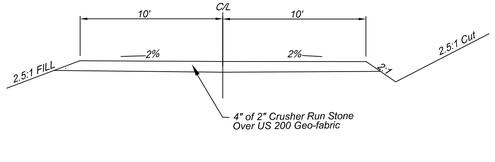
Typical Access Road Cross Section
20' Travel Way

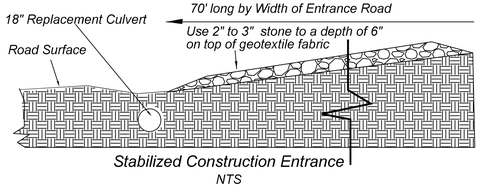


Typical Access Road Entrance Cross Section
25' Travel Way
Stations 0+10 to 1+00



Typical Access Road Entrance Cross Section
25' Travel Way
Stations 1+00 to End





Stabilized Construction Entrance
NTS

Legend

- Existing 1' Contour
- Existing 5' Contour (1330)
- Existing Tree Line
- Existing Utility Line / Pole
- Surface Owner Property Line
- LOD — Limits of Disturbance
- Proposed Diversion Ditch
- Proposed 1' Contour
- Proposed 5' Contour
- SF — Proposed Super Silt Fence
- Proposed Rock Check Dam
- Proposed Culvert W/ Inlet & Outlet Protection
- SW — Proposed Straw Wattles
- SSXX — Proposed Silt Soxx w/ Diameter
- Proposed 1' Road Contour
- Proposed 5' Road Contour
- Proposed Rip-Rap

* Silt Soxx Diameter in Inches
* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

REVISIONS

DATE

CHARLES K. WILSON — REGISTERED NO. 12483 — STATE OF WEST VIRGINIA — PROFESSIONAL ENGINEER

L&W ENTERPRISES, INC.
PO BOX 826
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L&W Enterprises Incorporated

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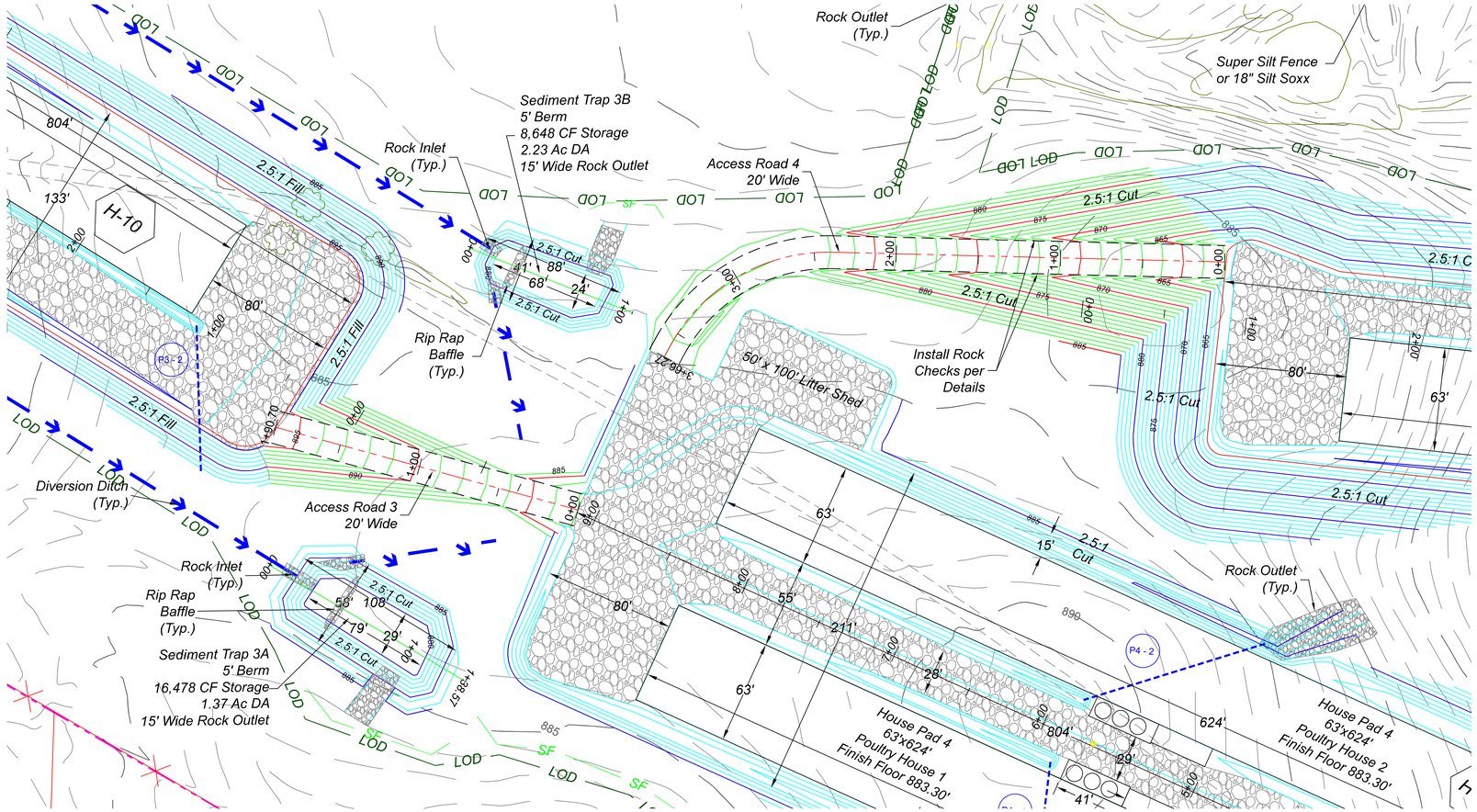
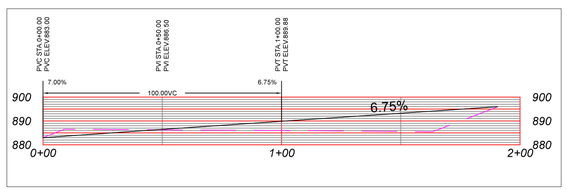
ROAD 6 AND ROAD 5 PLANS AND PROFILES
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20
Scale: 1" = 40' / 50'
Designed By: CKW
File No. WVPPII_1-20

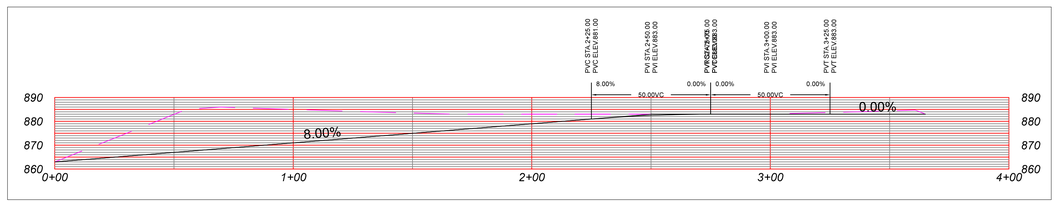
ROAD 3 AND ROAD 4 PLANS AND PROFILES





Road 3 Profile
Scale 1"= 30'

0' 30' 60' 90'



Road 4 Profile
Scale 1"= 30'

0' 30' 60' 90'

Legend

- Existing 1' Contour
- 1330 Existing 5' Contour
- Existing Tree Line
- Existing Utility Line / Pole
- Surface Owner Property Line
- LOD Limits of Disturbance
- Proposed Diversion Ditch
- Proposed 1' Contour
- Proposed 5' Contour
- SF Proposed Super Silt Fence
- Proposed Rock Check Dam
- Proposed Culvert W/ Inlet & Outlet Protection
- SW Proposed Straw Wattles
- SSXX Proposed Silt Soxx w/ Diameter
- Proposed 1' Road Contour
- Proposed 5' Road Contour
- Proposed Rip-Rap

* Silt Soxx Diameter in Inches

* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

REVISIONS

DATE

CHARLES K. WILSON
REGISTERED
NO. 12483
STATE OF
VIRGINIA
PROFESSIONAL ENGINEER

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ROAD 3 AND ROAD 4 PLANS AND PROFILES
WV POULTRY PARTNERS II LLC
POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

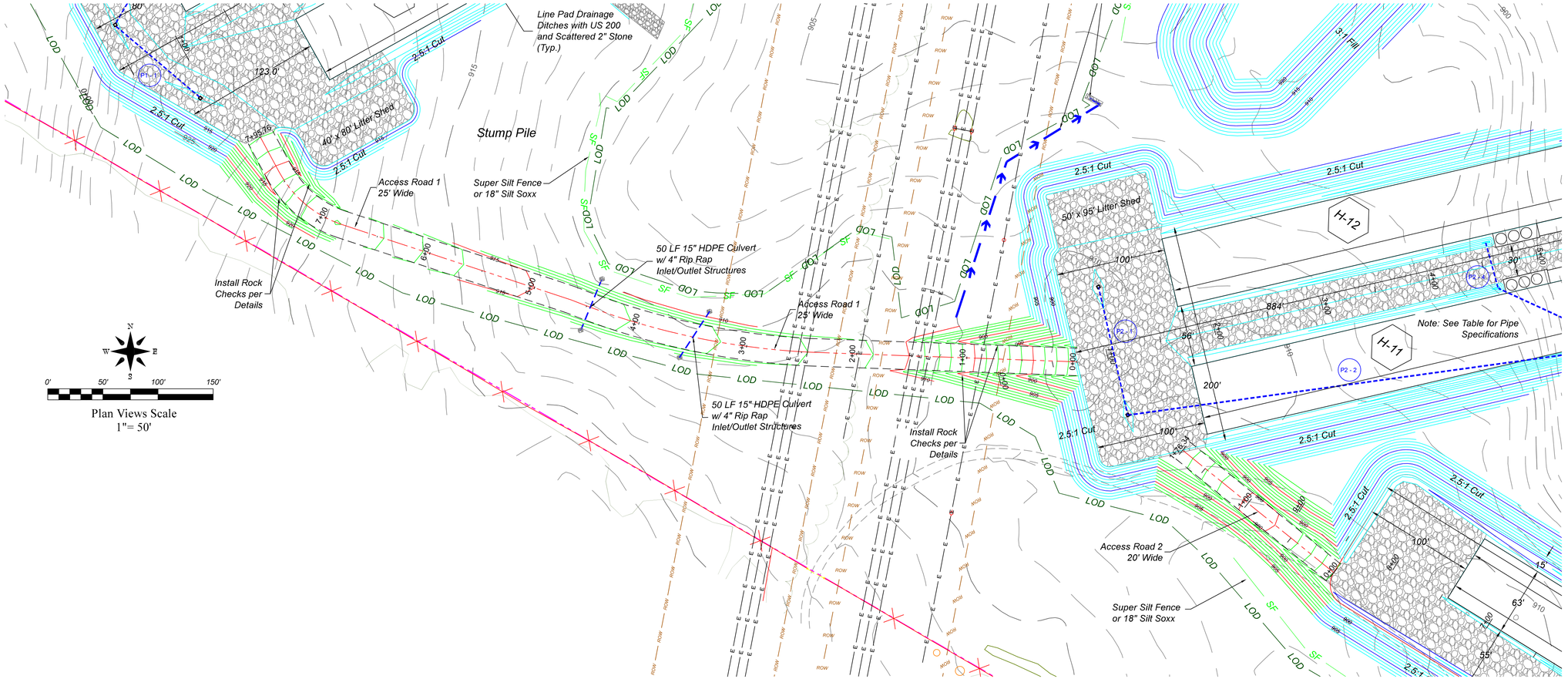
Date: 3/16/20

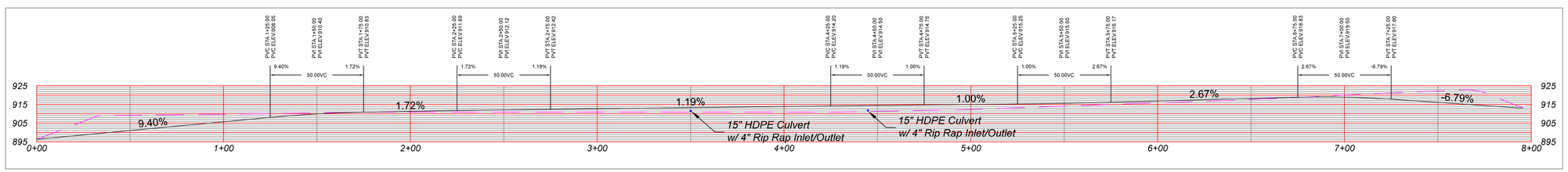
Scale: 1" = 30'/40'

Designed By: CKW

File No. WVPPII_1-20

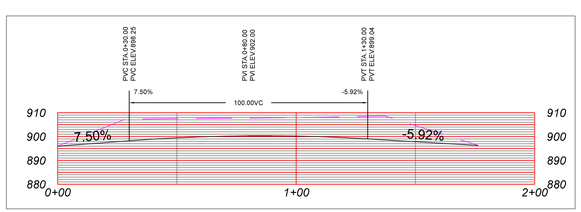
ROAD 1 AND ROAD 2 PLANS AND PROFILES





Road 1 Profile
Scale 1"= 30'

0' 30' 60' 90'



Road 2 Profile
Scale 1"= 30'

0' 30' 60' 90'

Legend

- Existing 1' Contour
- Existing 5' Contour
- Existing Tree Line
- Existing Utility Line / Pole
- Surface Owner Property Line
- LOD — Limits of Disturbance
- Proposed Diversion Ditch
- Proposed 1' Contour
- Proposed 5' Contour
- SF — Proposed Super Silt Fence
- Proposed Rock Check Dam
- Proposed Culvert W/ Inlet & Outlet Protection
- SW — Proposed Straw Wattles
- SSXX — Proposed Silt Soxx w/ Diameter
- Proposed 1' Road Contour
- Proposed 5' Road Contour
- Proposed Rip-Rap

* Silt Soxx Diameter in Inches

* 12" Silt Soxx Can be Substituted for Super Silt Fence in non-concentrated flow areas.

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POULTRY OPERATION
SITE DESIGN, EROSION & SEDIMENT CONTROL PLAN
MOOREFIELD DISTRICT
HARDY COUNTY, WV

Date: 3/16/20

Scale: 1" = 30'/50'

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